
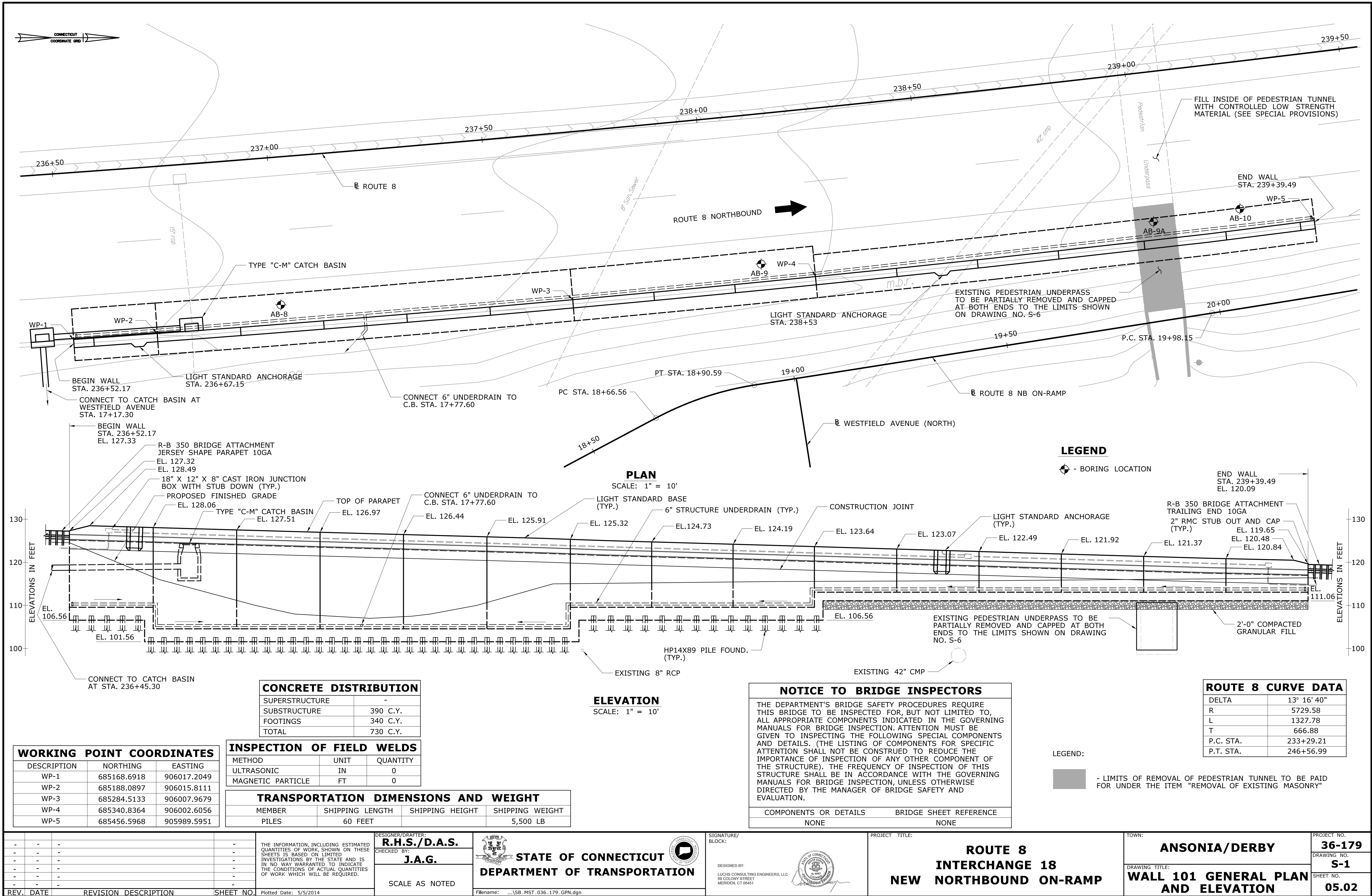


05 - STRUCTURES
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
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S-2	WALL 101 GENERAL NOTES		
S-3 to S-5	WALL 101 BORING LOGS		
S-6	WALL 101 DEMOLITION PLAN		
S-7	WALL 101 PAY LIMITS		
S-8	WALL 101 PILE LAYOUT PLAN		
S-9 TO S-11	WALL 101 PLAN AND ELEVATIONS		
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S-13	MISCELLANEOUS REINFORCEMENT DETAILS		
S-14	METAL BEAM RAIL ATTACHMENT DETAILS		
S-15	ELECTRICAL DETAILS		
S-16 TO S-20	NOISE BARRIER WALL AND WALL 102 GENERAL PLAN & ELEVATIONS		
S-21	NOISE BARRIER WALL AND WALL 102 GENERAL NOTES		
S-22 TO S-26	NOISE BARRIER WALL AND WALL 102 BORING LOGS		
S-27 TO S-32	NOISE BARRIER WALL AND WALL 102 PLAN & ELEVATIONS		
S-33	NOISE BARRIER WALL & FOUNDATION DETAILS		
S-34	WALL 102 & FOUNDATION DETAILS		
BSM-1 TO BSM-6	BREAKAWAY SIGN SUPPORTS		

DESIGNED BY:

DE CARLO & DOLL, INC.
89 COLONY STREET
MERIDEN, CONNECTICUT 06451



QUANTITIES		
ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - EARTH (COMPLETE)	C.Y.	2600
COMPACTED GRANULAR FILL	C.Y.	150
PERVIOUS STRUCTURE BACKFILL	C.Y.	1100
CONTROLLED LOW STRENGTH MATERIAL	C.Y.	250
CLASS "A" CONCRETE	C.Y.	650
CLASS "F" CONCRETE	C.Y.	80
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	150
DEFORMED STEEL BARS	LBS.	65100
DEFORMED STEEL BARS - EPOXY COATED	LBS.	13500
FURNISHING STEEL PILES	LBS.	280000
DRIVING STEEL PILES	L.F.	3100
POINT REINFORCEMENT FOR STEEL PILES	EA.	79
TEST PILE (STEEL HP14X89 - 50' LONG)	EA.	2
DYNAMIC PILE DRIVING ANALYSIS (P.D.A) TEST	EA.	2
DAMPPROOFING	S.Y.	330
TEMPORARY EARTH RETAINING SYSTEM	S.F.	5800
6" STRUCTURE UNDERDRAIN	L.F.	300
REMOVAL OF EXISTING MASONRY	C.Y.	70
2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	315
18"X12"X8" CAST IRON JUNCTION BOX	EA.	3

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2014 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPEIFICATIONS - 6TH EDITION, 2012 WITH INTERIM SPECIFICATIONS INCLUDING AND UP TO 2013, AND AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATTION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:

CLASS "A" CONCRETE	BASED ON f'c = 3300 PSI
CLASS "F" CONCRETE	BASED ON f'c = 4400 PSI
REINFORCEMENT (ASTM A615 GRADE 60)	fy = 60 KSI
STEEL PILES (ASTM A572, GRADE 50)	Fy = 50 KSI, FOR HP PILES

LIVE LOAD: AASHTO HL-93 LOADING

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

EXISTING DIMENSIONS: THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

EXISTING UTILITIES: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERT ELEVATIONS FOR ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.

CONCRETE NOTES

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE ARE NOT ALLOWED.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR THE PARAPET AND END BLOCKS.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR THE RETAINING WALL.

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS: ALL REINFORCEMENT IN THE PARAPET AND END BLOCKS SHALL BE EPOXY COATED, UNLESS OTHERWISE NOTED. THESE BARS SHALL BE INCLUDED IN THE PAY ITEM "DEFORMED STEEL BARS (EPOXY COATED)".

PREFORMED EXPANSION JOINT FILLER: THE PREFORMED EXPANSION JOINT FILLER WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT UNDER THE ITEM "1/2 PREFORMED EXPANSION JOINT FILLER FOR BRIDGE" COMPLETE IN PLACE, WHICH PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENTS, TOOLS, LABOR AND WORK INCIDENTAL THERETO.

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

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Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-9		
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 18+97		
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905999.88		
Start Date: 08-06-12		Location: Route 8				Easting: 685328.23		
Finish Date: 08-06-12		Bridge No.:				Surface Elevation: 120.4		
Project Description: Route 8 Ramp 18 North				Prime Engineer: Luchs Consulting				
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type: NX diamond		
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.		
Groundwater Observations: @Water at 21 feet								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
40	S-9	60 100/3"	9	4	GRAY BROWN FC SAND LTL F GRAVEL LTL SILT (cont)	Gray brown fine coarse SAND, little fine gravel, little silt, occasional cobbles and boulders.	80	
45	S-10	25 62 50/1"	13	8		Gray brown fine coarse SAND, little fine gravel, little silt, occasional cobbles and boulders.	75	
50	C-1		58	6		Gray brown fine coarse SAND, little fine gravel, little silt, cobbles and boulders.	70	
55	C-2		60	26	6	GRAY SCHIST	Gray, slightly weathered, medium grained SCHIST.	65
60						END OF BORING 57.5ft	60	
65							55	
70							50	
75							45	
80								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 57.5ft Rock: 5ft			NOTES: CME 55 Truck Mounted Rig was used.				Sheet 2 of 2	
No. of Soil Samples: 8 No. of Core Runs: 1							SM-001-AETrev.9/09	

Applied Earth Technologies, Inc., 671 Bee Street, Meriden, CT 06460, Tel: 203-634-9110 A-12

Driller: Jaime Lloret		Connecticut DOT Boring Report			Hole No.: AB-9A			
Inspector: R. Beniwal		Town: Ansonia			Stat./Offset: 19+88			
Soil Engr: Applied Earth Tech.		Project No.: 36-176			Northing: 905989.89			
Start Date: 08-06-12		Location: Route 8			Easting: 685419.29			
Finish Date: 08-06-12		Bridge No.:			Surface Elevation: 117.76			
Project Description: Route 8 Ramp 18 North					Prime Engineer: Luchs Consulting			
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in			Core Barrel Type:			
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE			Boring Co: Associate Borings CO.			
Groundwater Observations: @No water								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
0						ASPHAL & PROCESS	4 in asphalt over 10" process.	
						BROWN FC GRAVEL & FC SAND	Brown fine coarse gravel, and fine coarse Sand, boulders and cobbles, fill.	115
5								
	C-1		3	3		CONCRETE	Reinforced cement concrete.	110
							END OF BORING 7ft	
10								
								105
15								
								100
20								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 6.75ft Rock: 0.25ft			NOTES: CME 55 Truck Mounted Rig was used.					Sheet 1 of 1
No. of Soil Samples: 0 No. of Core Runs: 0								
SM-001-AETrev.9/09								

Applied Earth Technologies, Inc., 671 Bee Street, Meriden, CT 06460, Tel: 203-634-9110 A-13

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-10				
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 20+00				
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905989.89				
Start Date: 08-06-12		Location: Route 8				Easting: 685439.34				
Finish Date: 08-06-12		Bridge No.:				Surface Elevation: 117.22				
Project Description: Route 8 Ramp 18 North						Prime Engineer: Luchs Consulting				
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type: NX diamond				
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.				
Groundwater Observations: @Water at 20 feet										
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)	ROD %
0										
	S-1	50	63	51	18	10	ASPHALT & PROCESS GRAY BROWN FC SAND, LTL FC GRAVEL, LTL SILT, FILL	4 in Asphalt over 10 in process. Brown fine coarse GRAVEL and fine coarse sand, trace silt, fill.	115	
5	S-2	9	10	23	15	24	4	Gray brown fine coarse SAND, little coarse fine gravel, little silt, occasional cobbles, fill. Gray brown fine coarse SAND, little coarse fine gravel, little silt, occasional cobbles, fill.	110	
10	S-3	5	10	13	17	24	3	Gray brown fine coarse SAND, little coarse fine gravel, little silt, occasional cobbles, fill.	105	
15	S-4	12	18	26	18	24	3	Gray brown fine coarse SAND, little coarse fine gravel, little silt, occasional cobbles, fill.	100	
20	S-5	24	4	4	6	24	0	BROWN ORGANIC F SAND & SILT	95	
25	S-6	4	8	19	25	24	14	BROWN F SAND & SILT	90	
30	S-7	7	28	38	58	24	14	BROWN FC GRAVEL & FC SAND	85	
35	S-8	34	55	14	14	24	4	Brown fine coarse GRAVEL, and fine coarse sand, trace silt.	80	
40										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 55ft Rock: 5ft					NOTES: CME 55 Truck Mounted Rig was used.				Sheet 1 of 2	
No. of Soil Samples: 9 No. of Core Runs: 1									SM-001-AETrev.9/09	

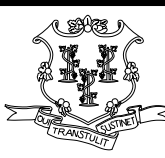
Applied Earth Technologies, Inc., 671 Bee Street, Meriden, CT 06460, Tel: 203-634-9110 A-14

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 4/25/2014

DESIGNER/DRAFTER:
R.H.S./D.A.S.
CHECKED BY:
J.A.G.
SCALE AS NOTED

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Filename: ...\\SB_MST_036_179_BR2.dgn

SIGNATURE/
BLOCK:

DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
39 COLONY STREET
MERIDEN, CT 06451



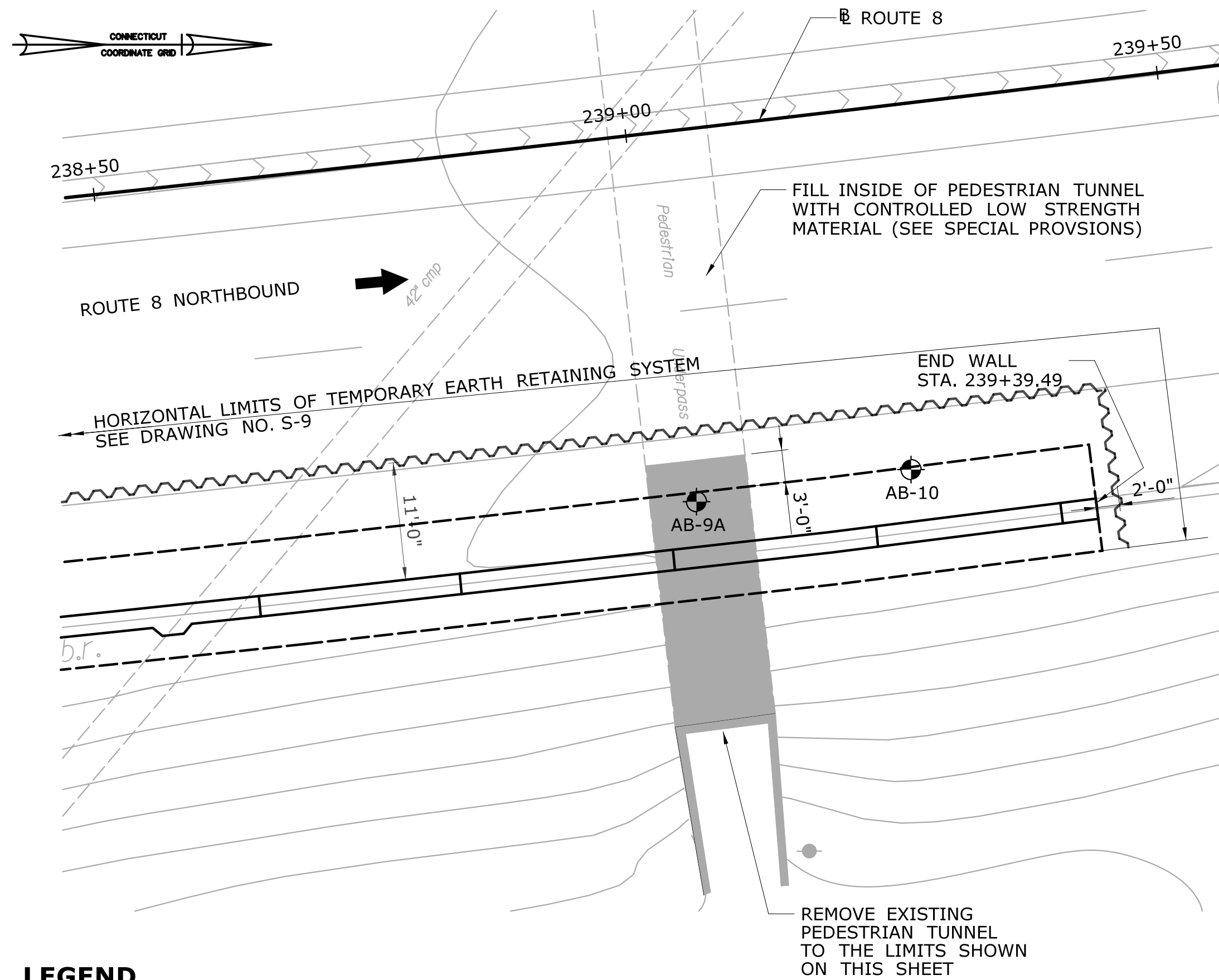
PROJECT TITLE:
**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

TOWN:
ANSONIA AND DERBY
DRAWING TITLE:
**WALL 101
BORING LOGS - 2**

PROJECT NO.
36-179
DRAWING NO.
S-4
SHEET NO.
05.05

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-10					
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 20+00					
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905986.89					
Start Date: 08-08-12		Location: Route 8				Easting: 685439.34					
Finish Date: 08-08-12		Bridge No.:				Surface Elevation: 117.22					
Project Description: Route 8 Ramp 18 North						Prime Engineer: Luchs Consulting					
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type: NX diamond					
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.					
Groundwater Observations: @Water at 20 feet											
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)			
	Sample Type/No.	Blows on Sampler per 8 inches			Pen. (in.)				Rec. (in.)	ROD %	
40	S-9	46	33	44	100/3"	21	8		BROWN FC GRAVEL & FC SAND (con't)	Brown fine coarse GRAVEL, and fine coarse sand, trace silt.	75
45	S-10	14	55	80		18	9		HIGHLY WEATHERED BEDROCK	Highly weathered/decomposed bedrock.	70
50	C-1					60	60	61	GRAY SCHIST	Gray slightly weathered, medium grained interlayered SCHIST and granofels.	65
55										END OF BORING 55ft	
60											55
65											50
70											45
75											40
80											
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%											
Total Penetration in		NOTES: CME 55 Truck Mounted Rig was used.					Sheet 2 of 2				
Earth: 55ft Rock: 5ft											
No. of Soil Samples: 9		No. of Core Runs: 1					SIM-001-AETrev.9/09				

Applied Earth Technologies, Inc., 671 Bee Street, Meriden, CT 06460, Tel: 203-634-9110 A-15

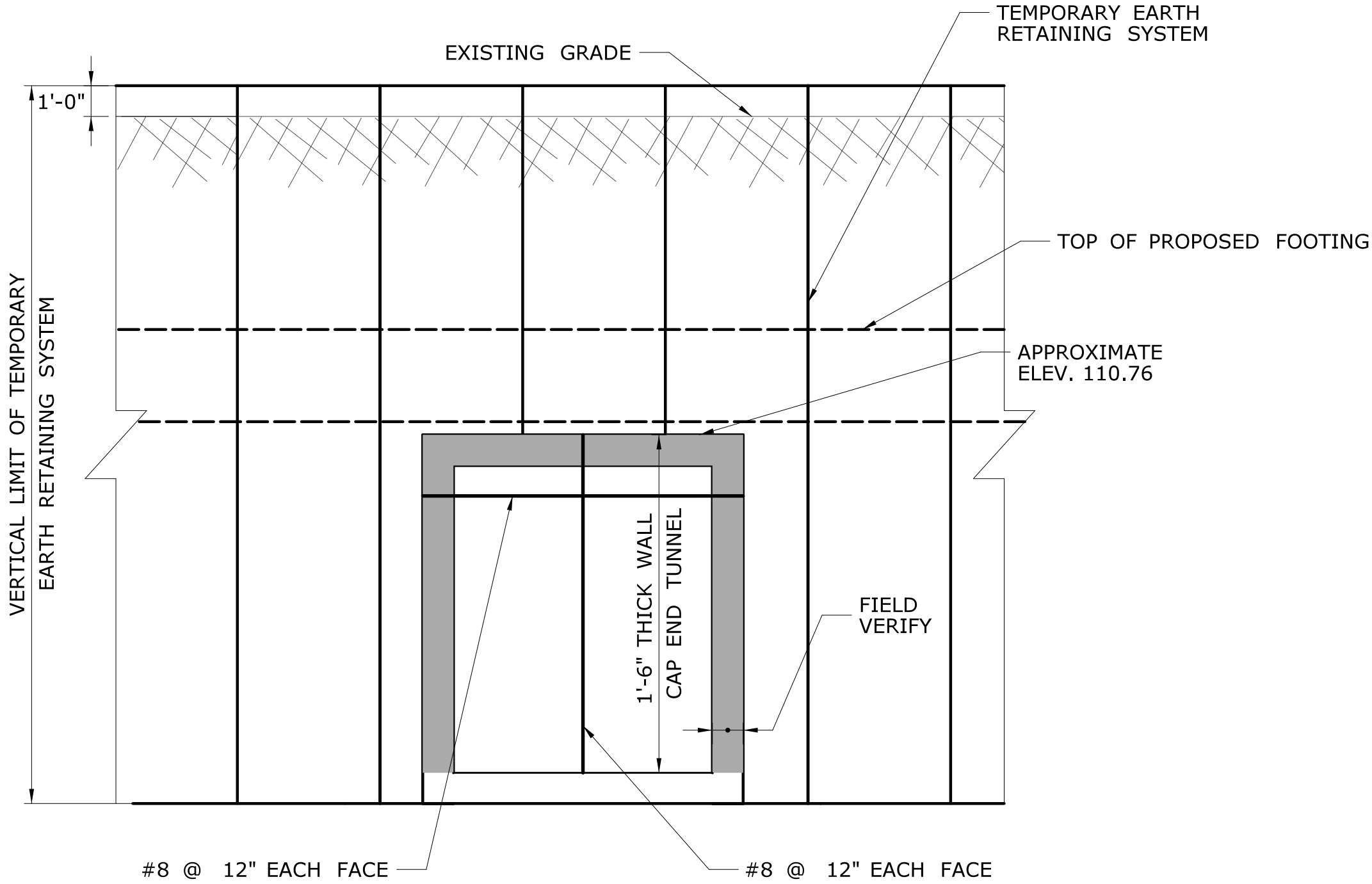


LEGEND

⊕ - BORING LOCATION

PARTIAL PLAN VIEW

SCALE: 1" = 10'



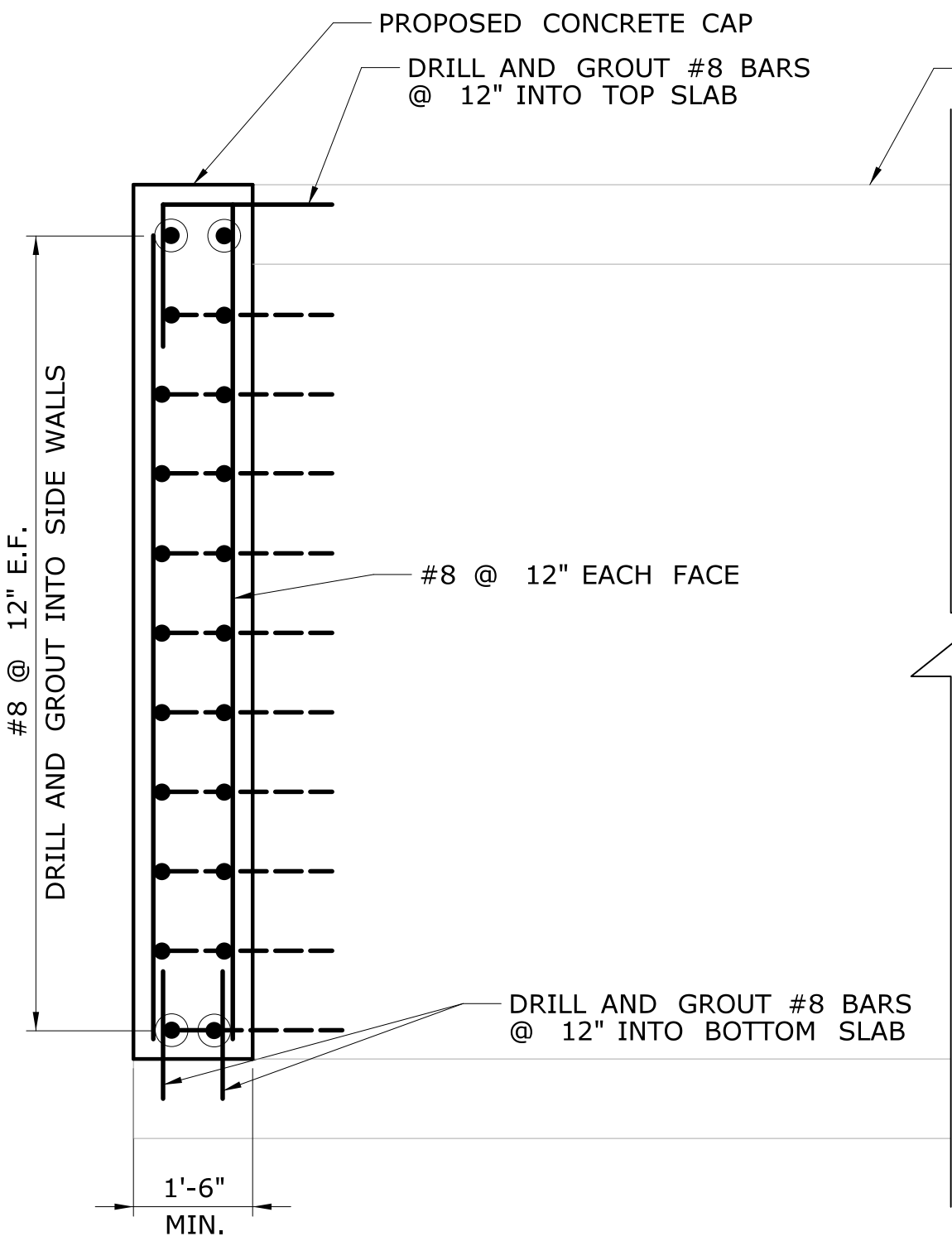
LEGEND:

■ - LIMITS OF REMOVAL OF PEDESTRIAN TUNNEL TO BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING MASONRY"

⊕ - LIMITS OF PERVIOUS STRUCTURE BACKFILL

ELEVATION

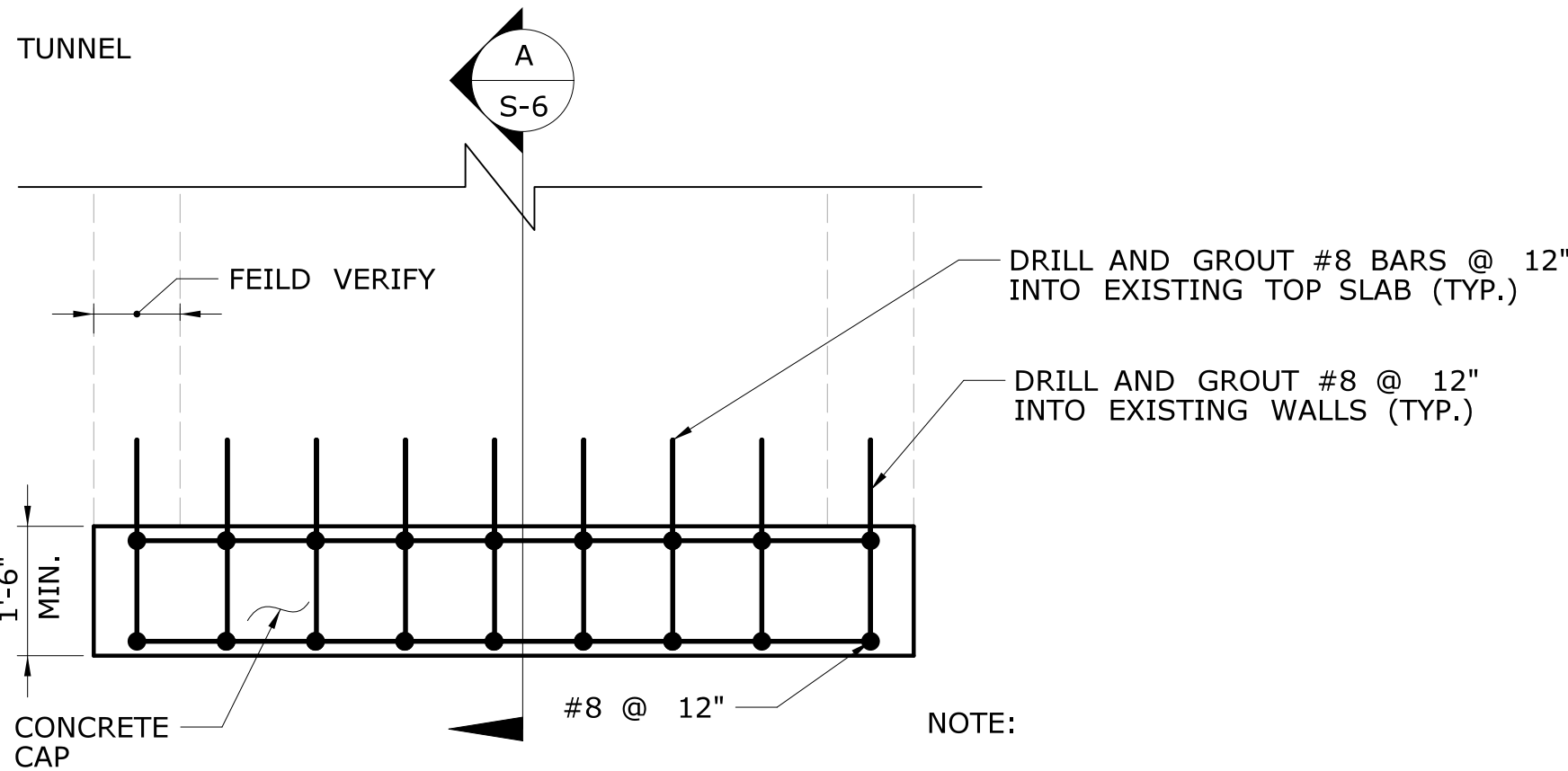
SCALE: 1/4" = 1'-0"



SECTION A (LOOKING SOUTH)

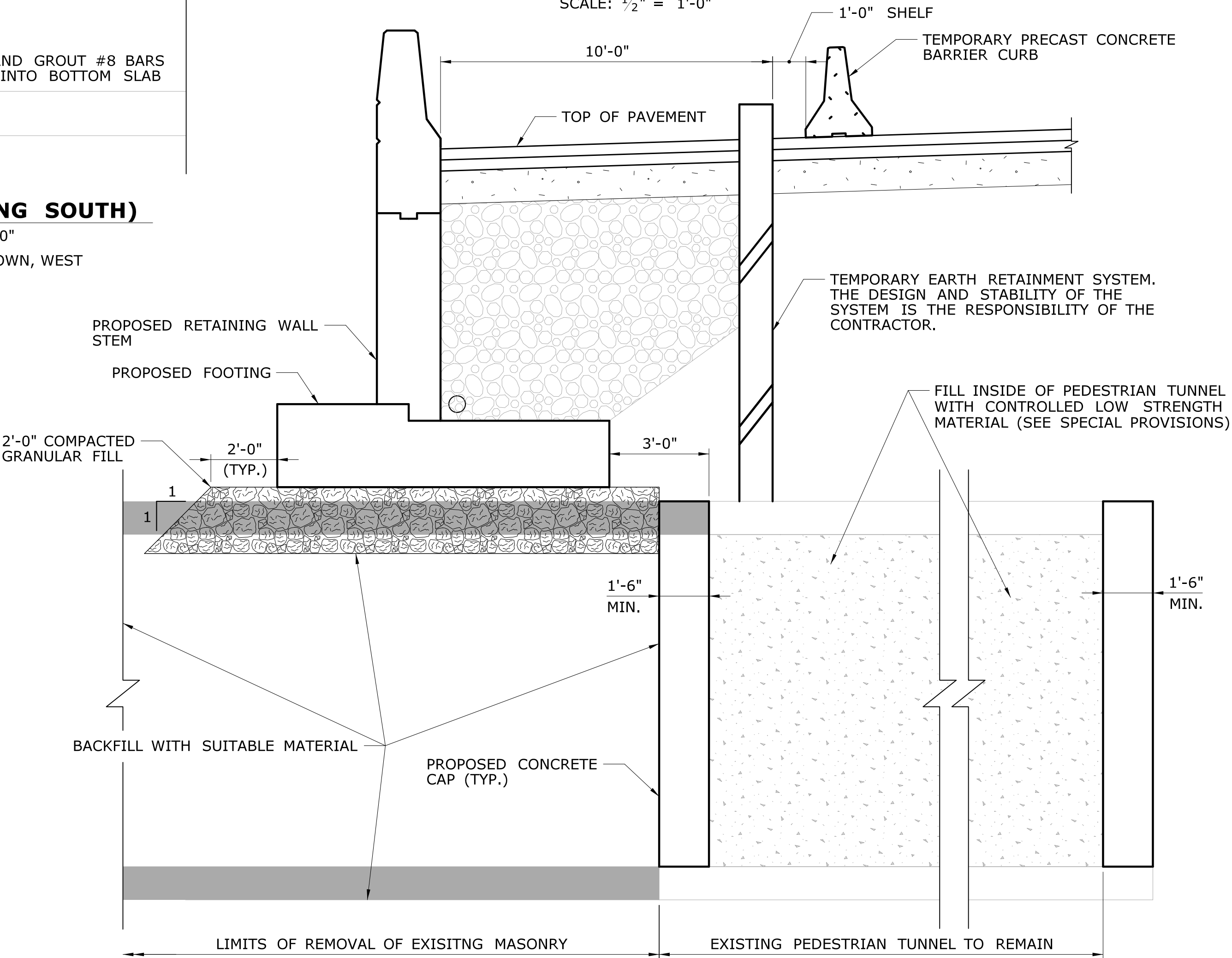
SCALE: 1/2" = 1'-0"

EAST CONCRETE CAP SHOWN, WEST CONCRETE CAP SIMILAR



**PLAN VIEW
PEDESTRIAN TUNNEL CAP**

SCALE: 1/2" = 1'-0"



**SECTION AT MIDDLE OF
PEDESTRIAN TUNNEL**

SCALE: 3/8" = 1'-0"

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Plotted Date: 4/25/2014

DESIGNER/DRAFTER:
R.H.S./D.A.S.
CHECKED BY:
J.A.G.
SCALE AS NOTED

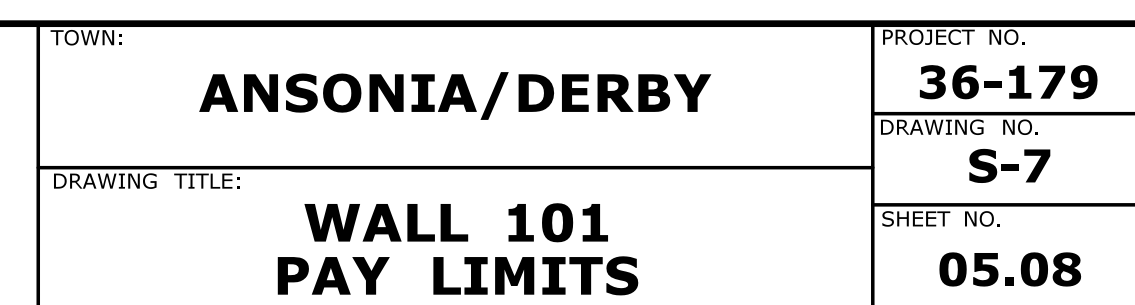
**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**
Filename: ...\\SB_MST_036_179_DEM.dgn

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BLOCK:
DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451






PROJECT TITLE:
**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

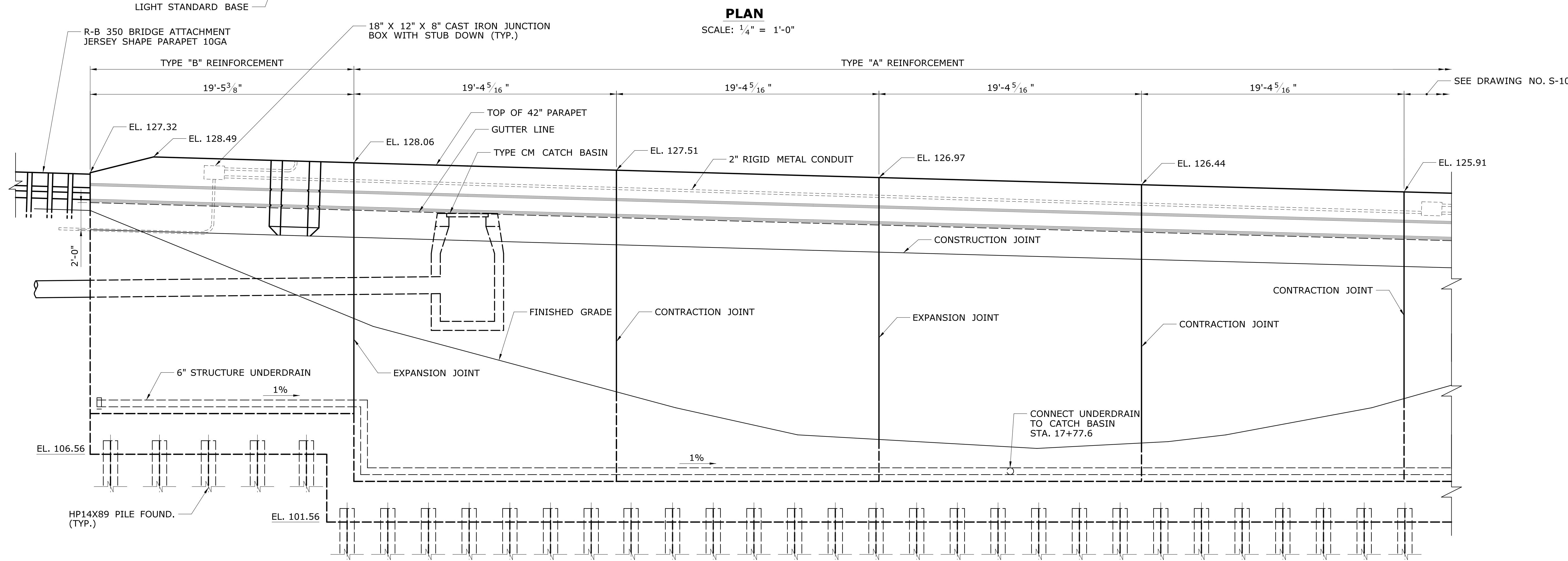
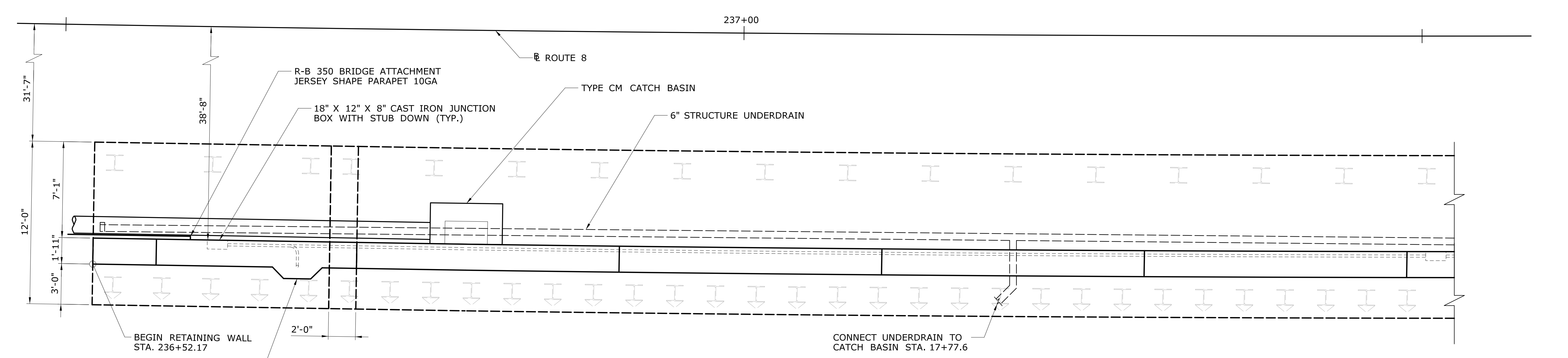
TOWN:
ANSONIA/DERBY
DRAWING TITLE:
**WALL 101
DEMOLITION PLAN**
PROJECT NO.
36-179
DRAWING NO.
S-6
SHEET NO.
05.07




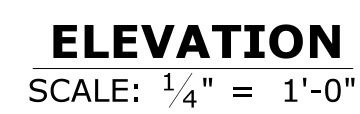


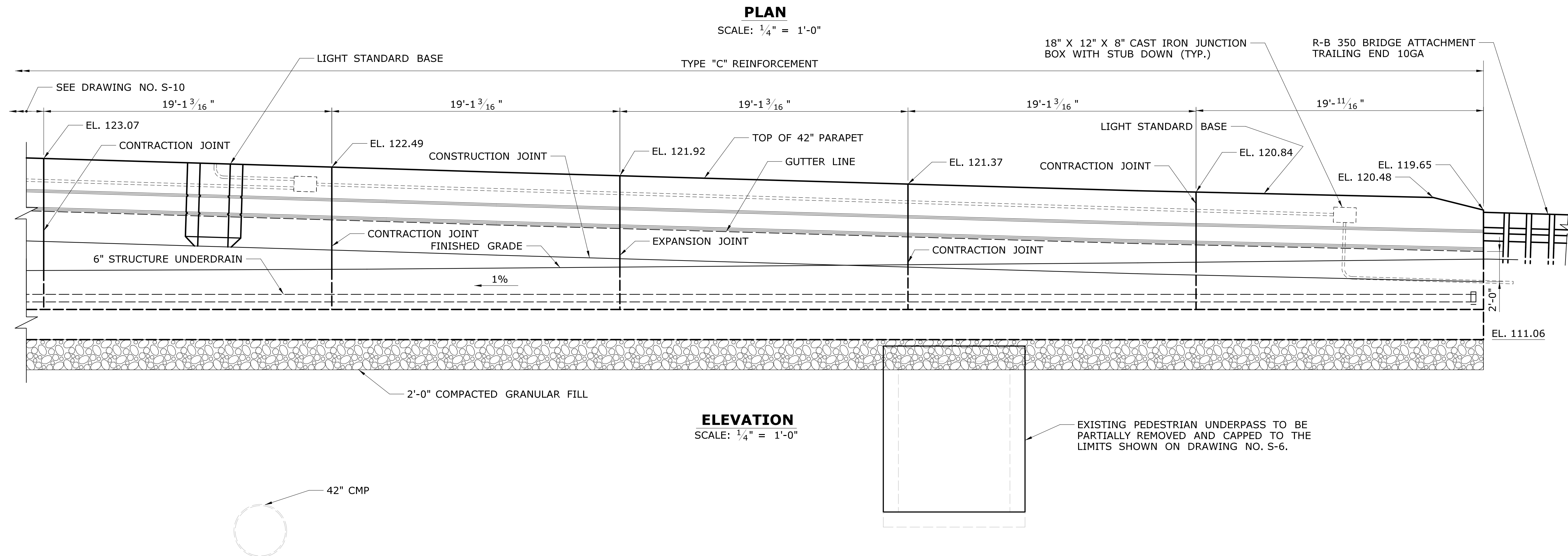
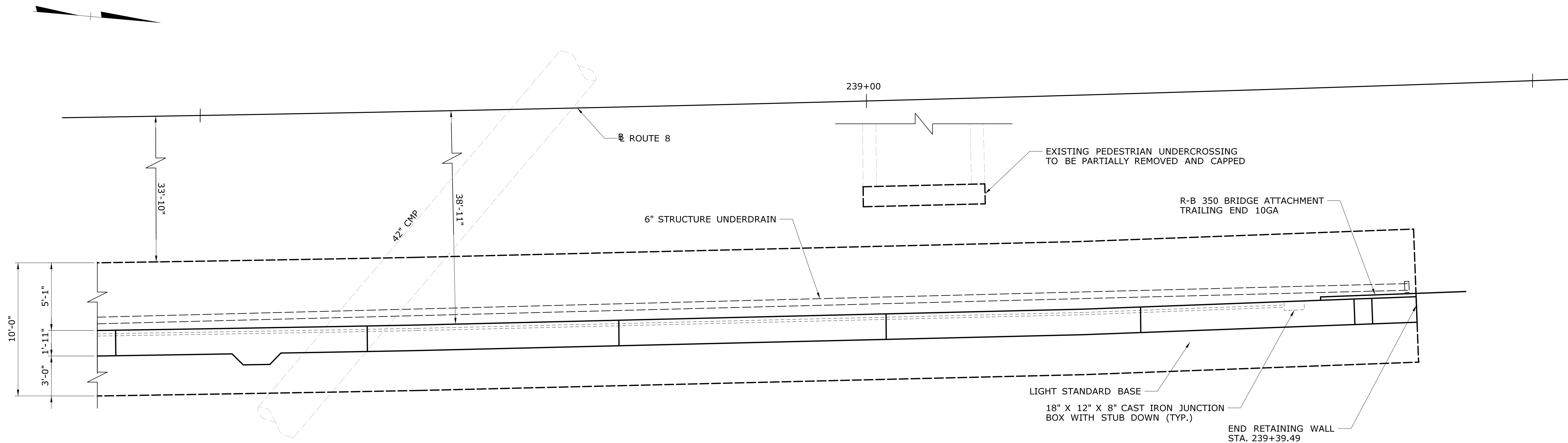
-  - DENOTES VERTICAL HP14X89 PILE
 - DENOTES BATTERED HP14X89 PILE
 - DENOTES HP14X89 TEST PILE

[illegible]



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Plotted Date: 5/1/2014

DESIGNER/DRAFTER:
R.H.S./D.A.S.

CHECKED BY:
J.A.G.


SCALE AS NOTED

 **STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION

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LUCHS CONSULTING ENGINEERS, LLC
39 COLONY STREET
MERIDEN, CT 06451



PROJECT TITLE:

**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

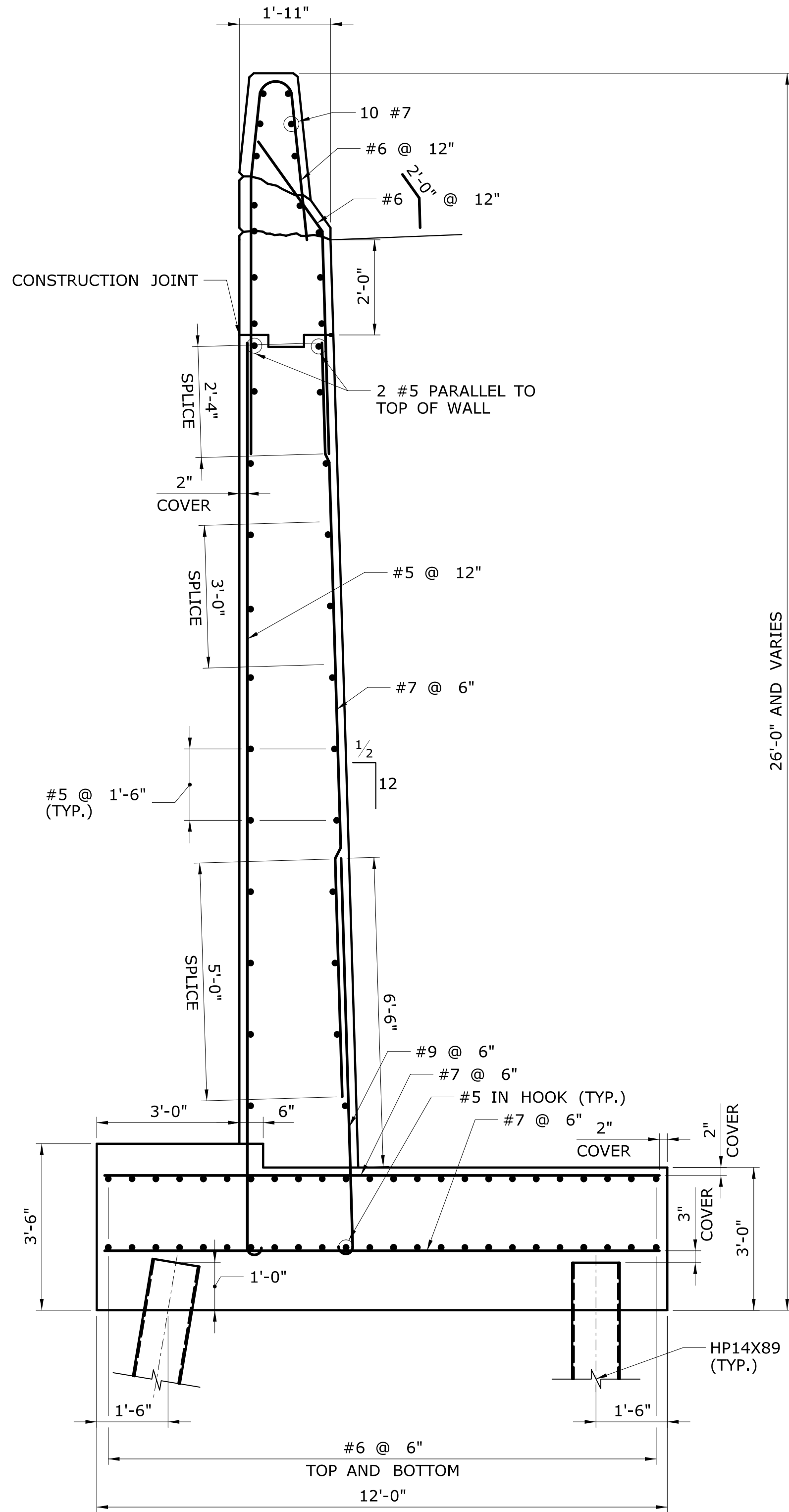
TOWN:
ANSONIA AND DERBY

DRAWING TITLE:
**WALL 101 PLAN
AND ELEVATION**

PROJECT NO.
36-179

DRAWING NO.
S-11

SHEET NO.
05.12

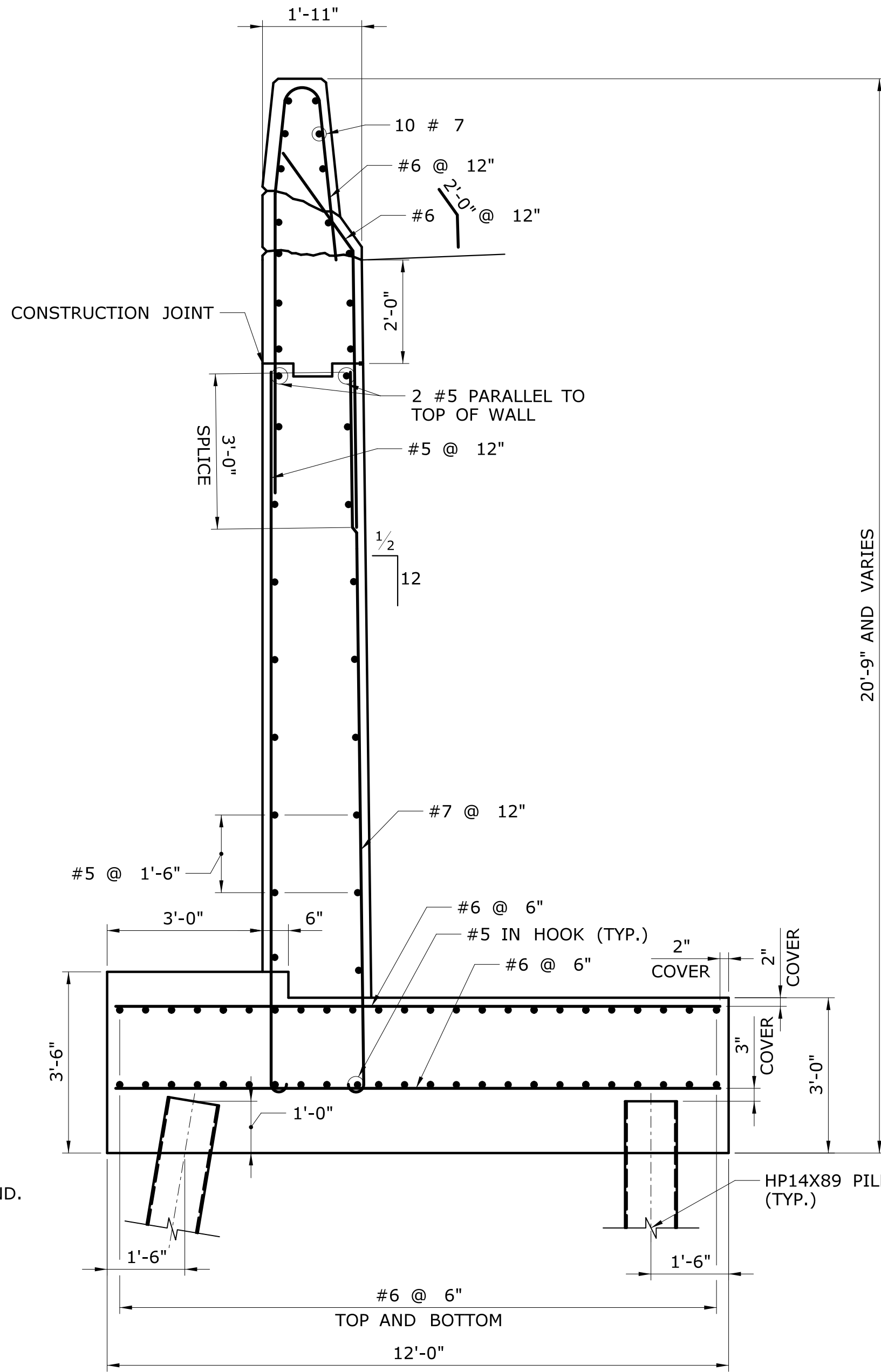


**TYPICAL CROSS SECTION
TYPE A**

SCALE: $\frac{1}{2}$ " = 1'-0"

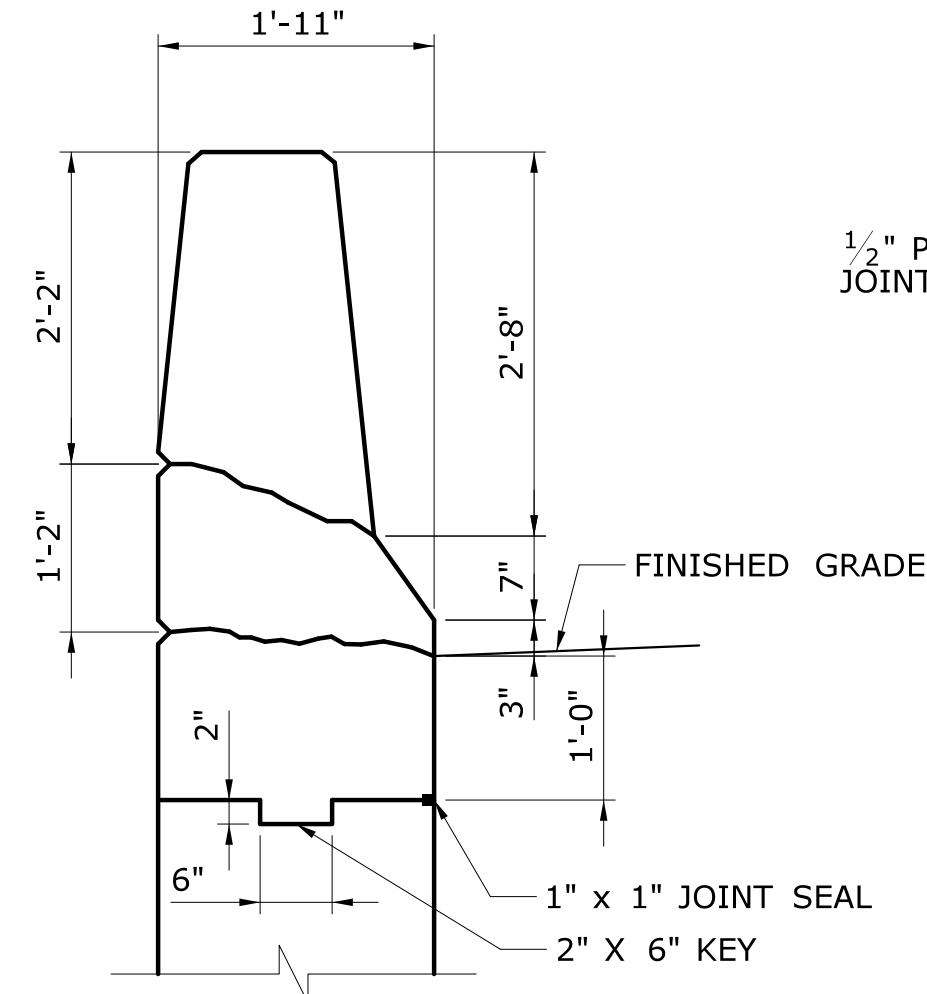
NOTE:

- SEE DRAWING NO. S-13 FOR TYPICAL STEP REINFORCEMENT



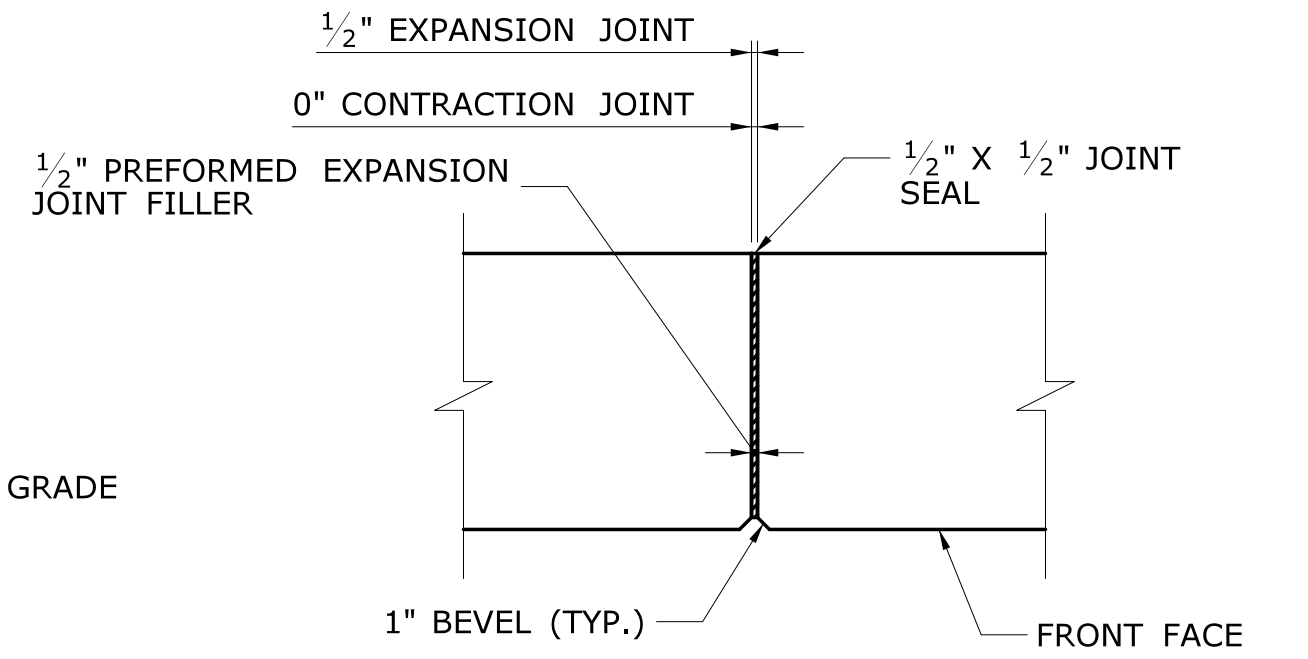
**TYPICAL CROSS SECTION
TYPE B**

SCALE: $\frac{1}{2}$ " = 1'-0"



PARAPET TO WALL JOINT DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"

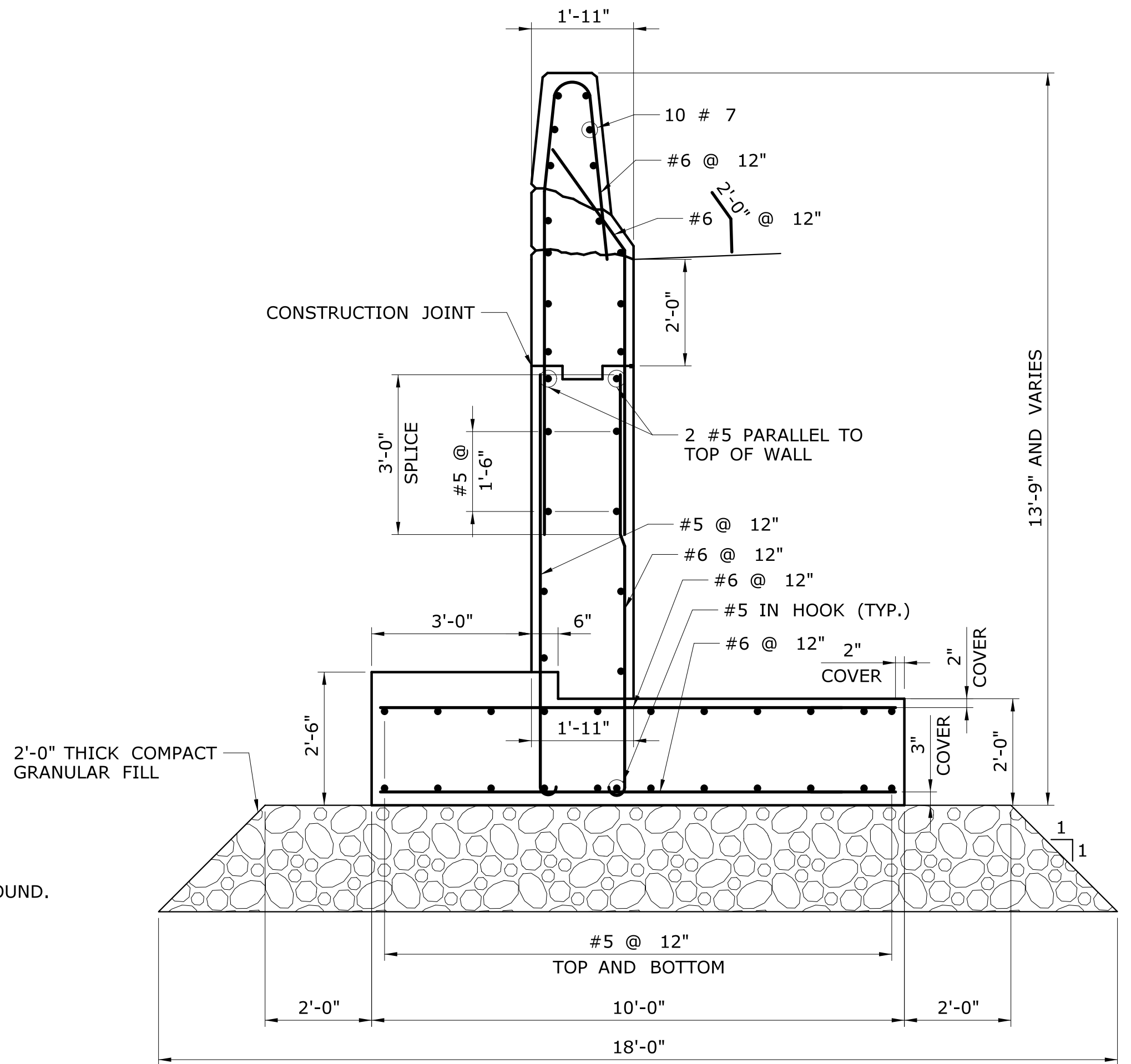


VERTICAL STEM JOINT DETAIL

SCALE: $\frac{3}{4}$ " = 1'-0"

NOTE:

- NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINTS.
- JOINT SEAL SHALL BE INCLUDED UNDER THE ITEM "CLASS A CONCRETE".



**TYPICAL CROSS SECTION
TYPE C**

SCALE: $\frac{1}{2}$ " = 1'-0"

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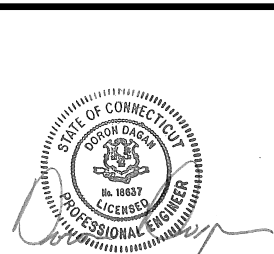
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Plotted Date: 5/1/2014

DESIGNER/DRAFTER:
R.H.S./D.A.S.
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J.A.G.
SCALE AS NOTED

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**
Filename: ...\\SB_MST_036_179_SEC.dgn

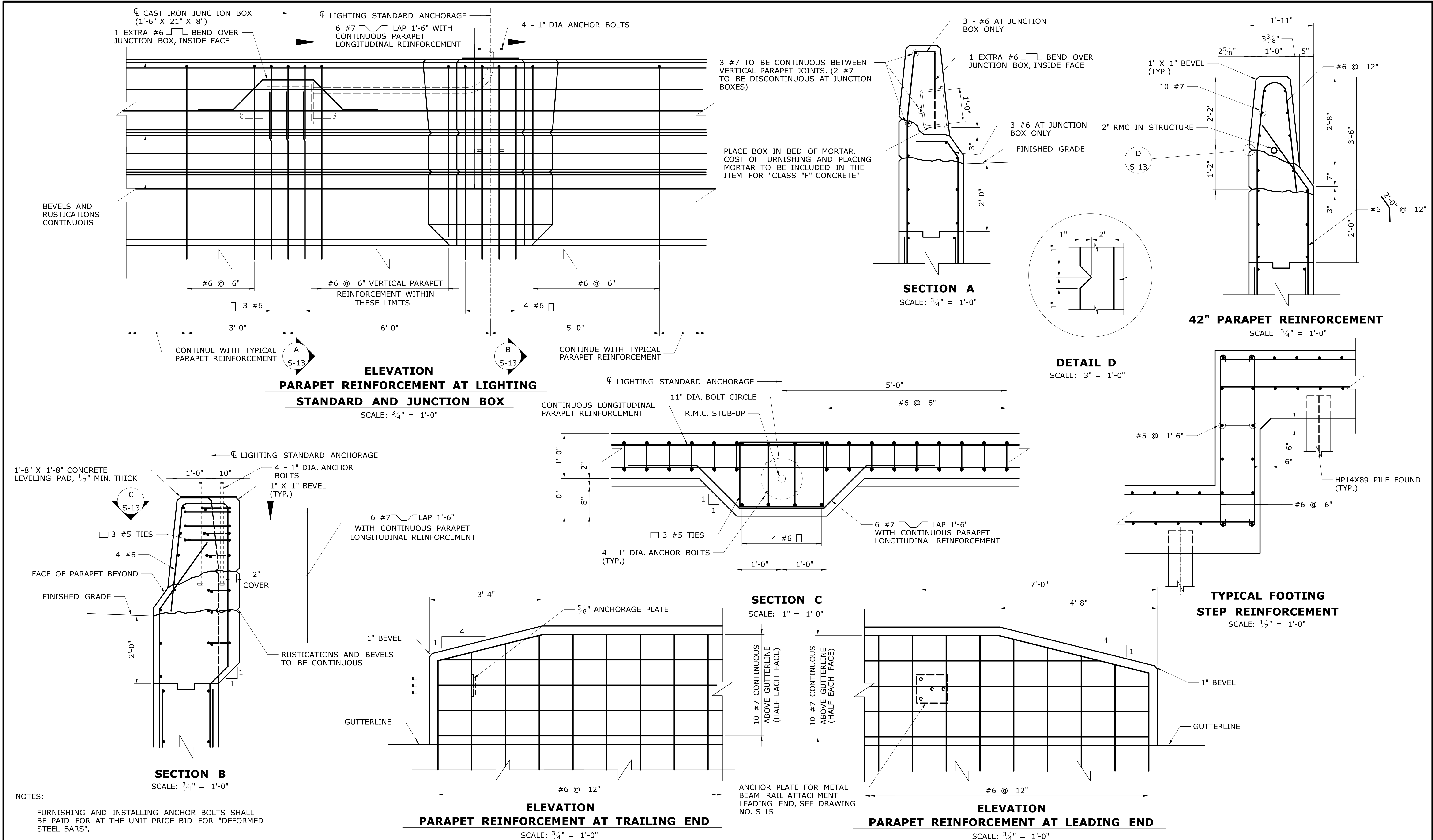
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BLOCK:
DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451



PROJECT TITLE:
**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

TOWN:
ANSONIA/DERBY
DRAWING TITLE:
**TYPICAL WALL SECTIONS
AND REINFORCEMENT**

PROJECT NO.
36-179
DRAWING NO.
S-12
SHEET NO.
05.13



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.


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Plotted Date: 4/8/2014

DESIGNER/DRAFTER:
R.H.S./D.A.S.

CHECKED BY:
J.A.G.


SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION

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DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
39 COLONY STREET
MERIDEN, CT 06451



PROJECT TITLE:

ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

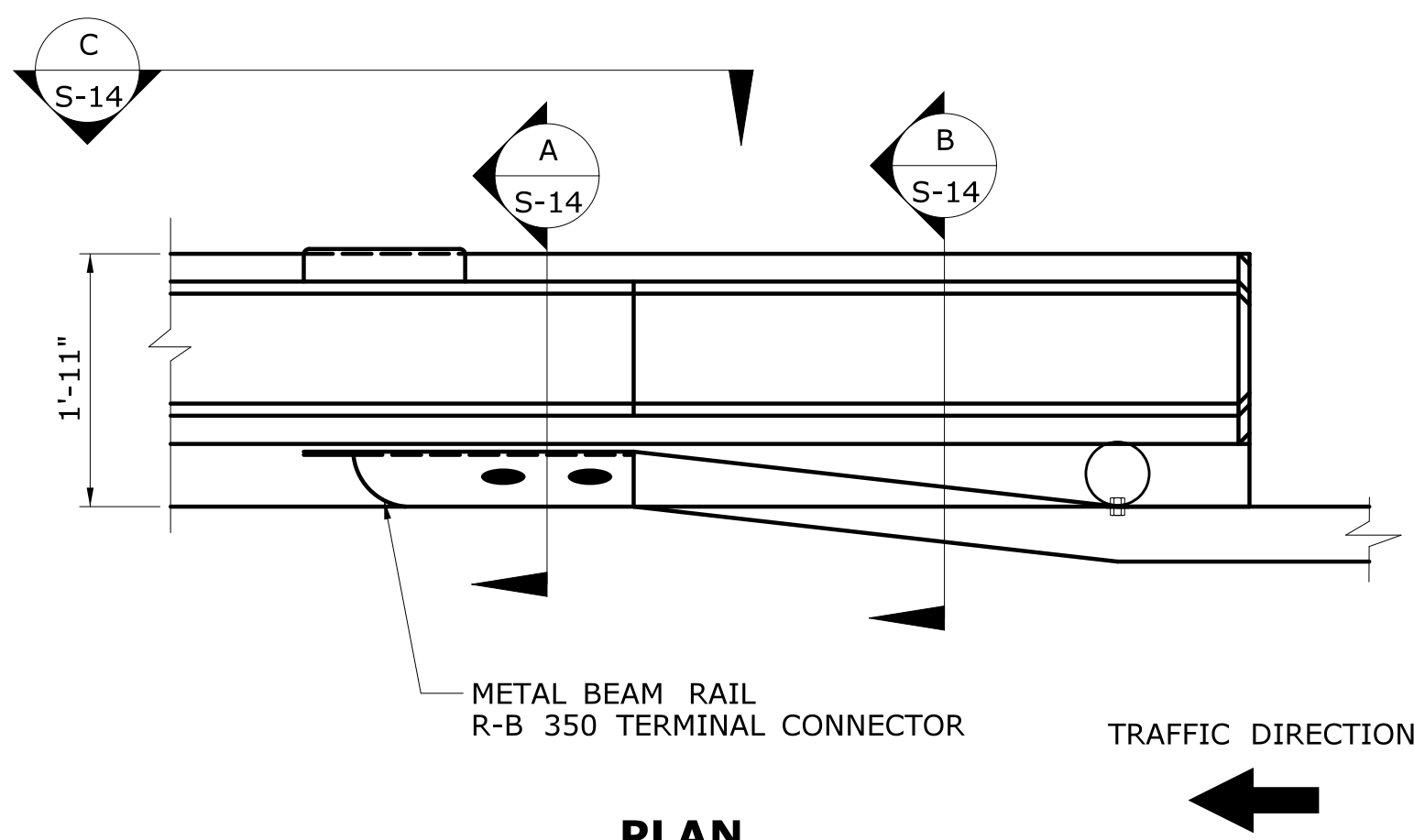
TOWN:
ANSONIA AND DERBY

DRAWING TITLE:
MISCELLANEOUS REINFORCEMENT DETAILS

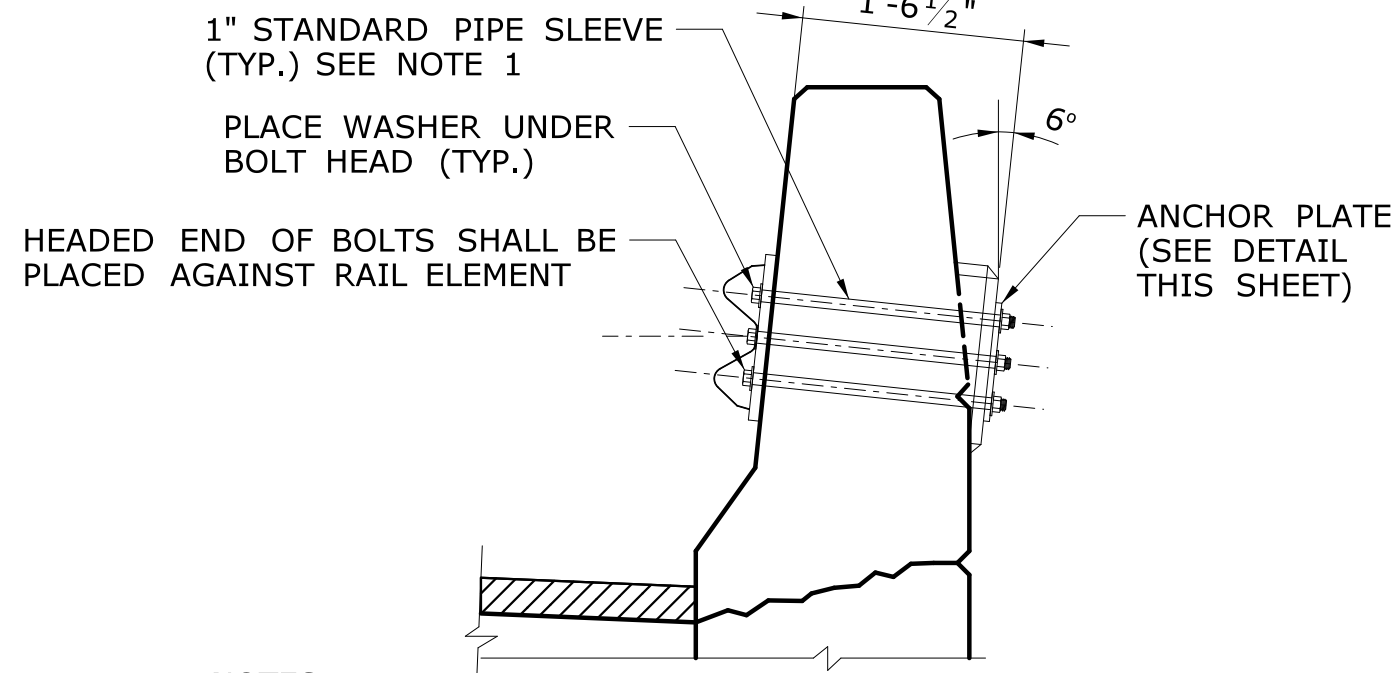
PROJECT NO.
36-179

DRAWING NO.
S-13

SHEET NO.
05.14



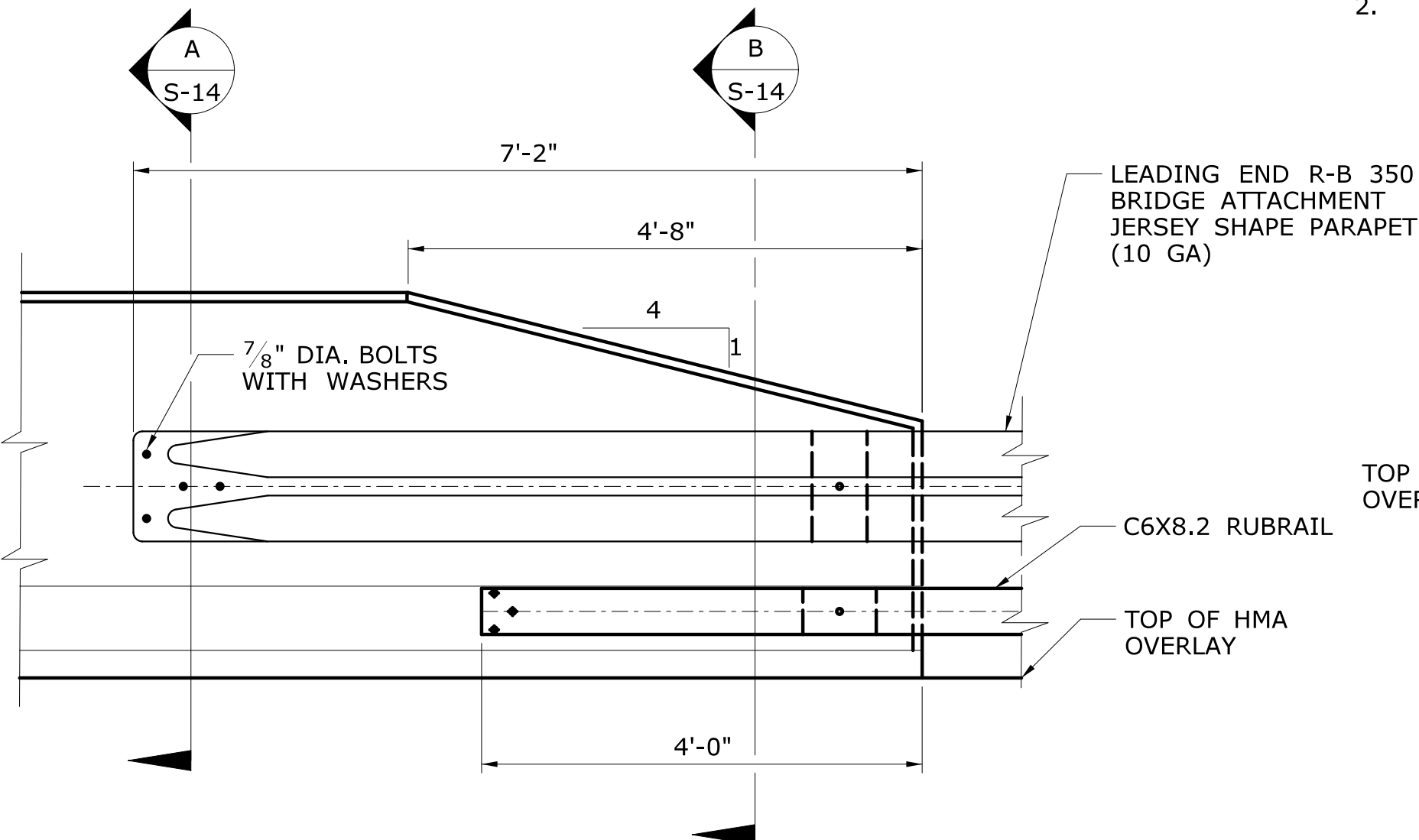
PLAN



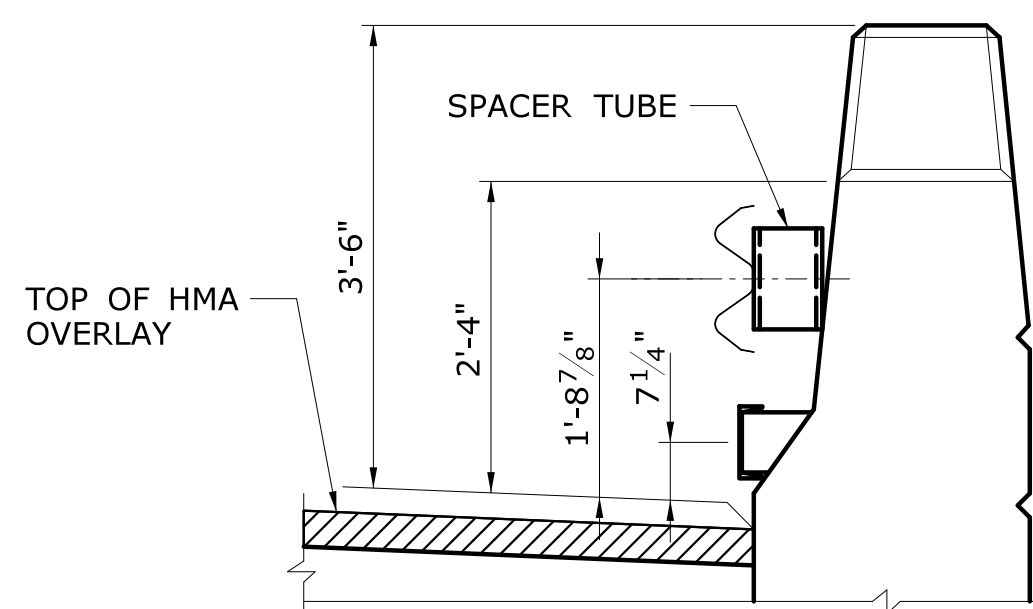
NOTES

- 1" DIA. PIPE SHALL CONFORM TO ASTM A53 GR. B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM - A123.
- ALL STEEL MATERIALS INCLUDING THE ANCHOR PLATE, 1" PIPE SLEEVE AND THE 7/8" DIA. BOLTS, NUTS, AND WASHERS, SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.

SECTION A-A



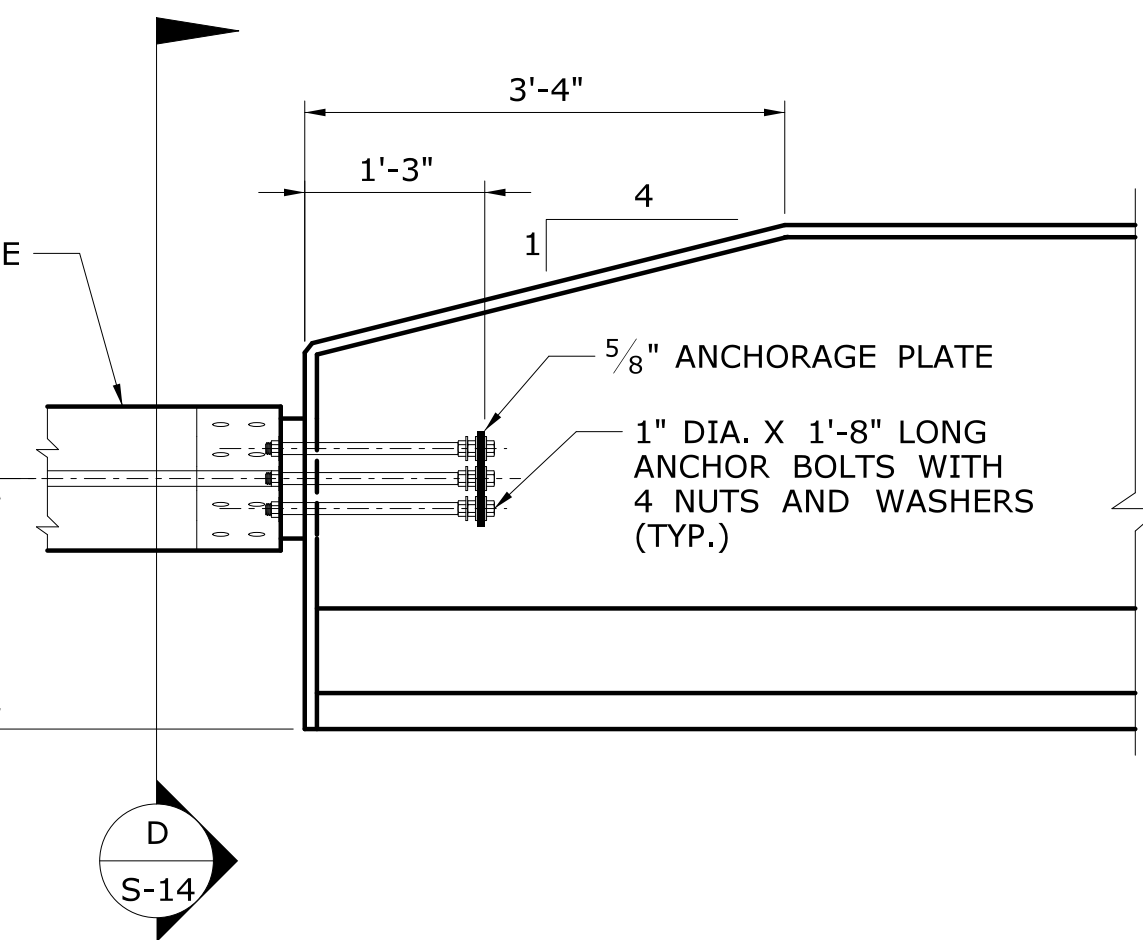
ELEVATION



SECTION B-B

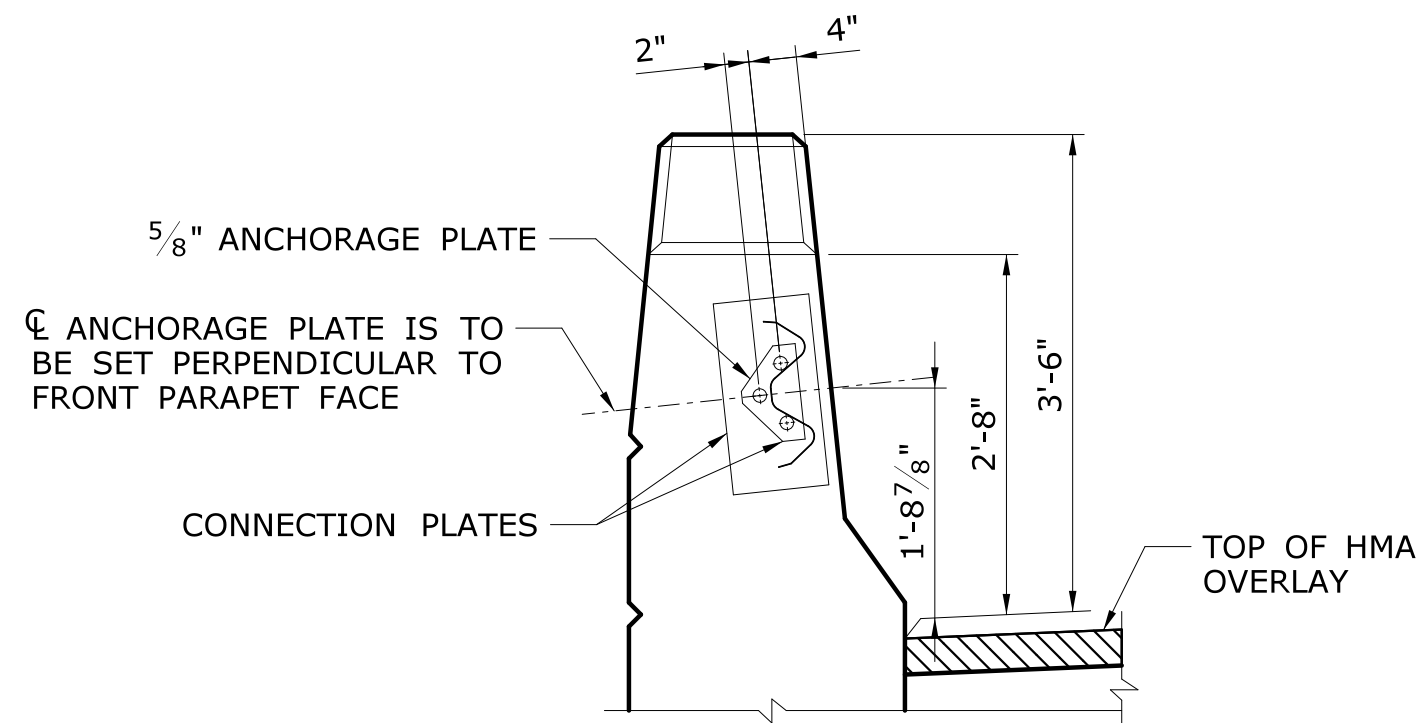
**LEADING END R-B 350
BRIDGE ATTACHMENT
JERSEY SHAPE PARAPET (10GA)**

SCALE: 3/4" = 1'-0"



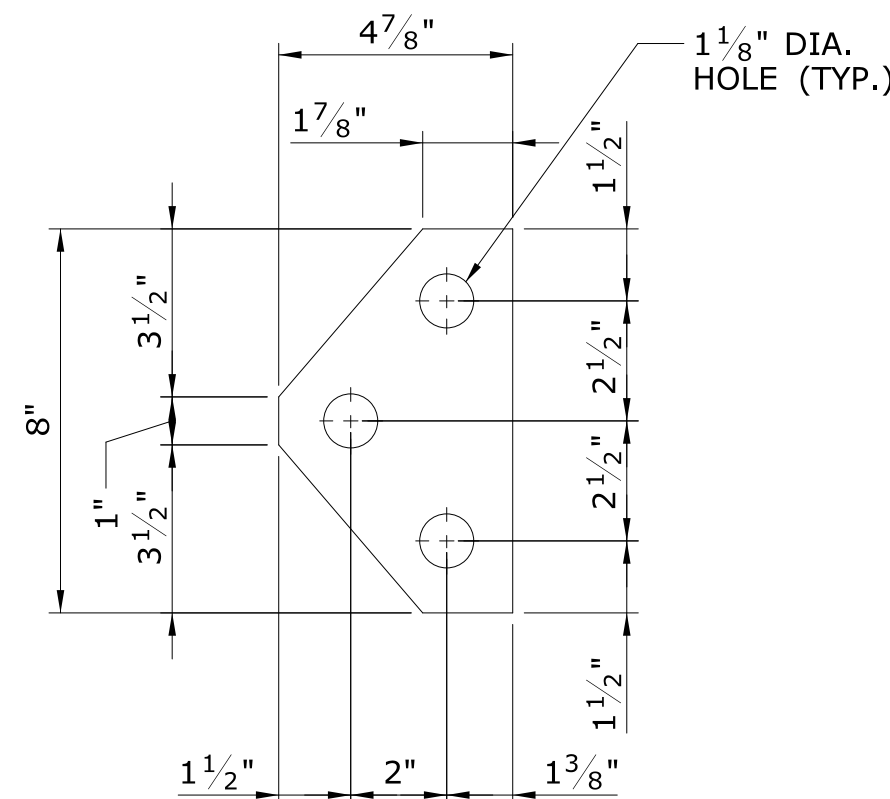
ELEVATION

SCALE: 3/4" = 1'-0"



SECTION D-D

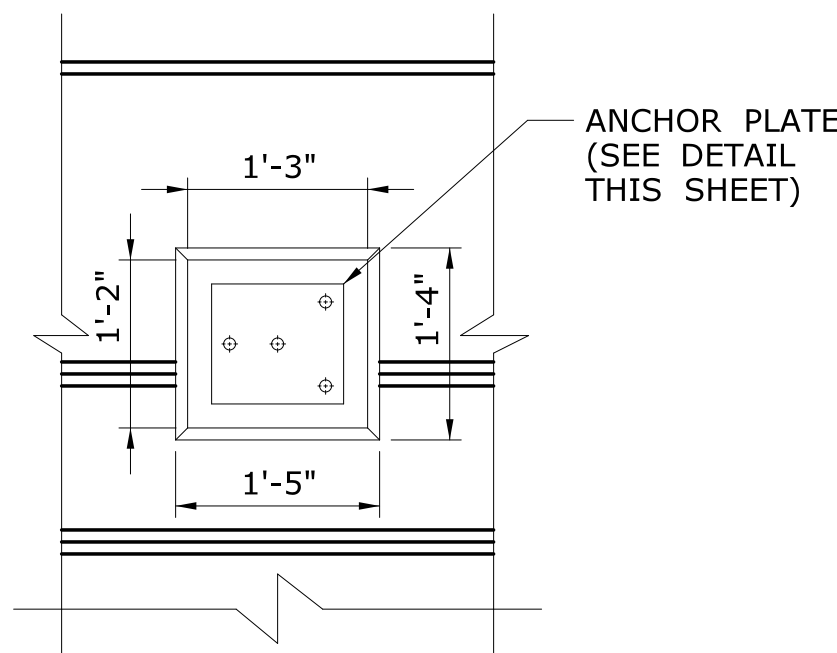
SCALE: 3/4" = 1'-0"



DETAIL B

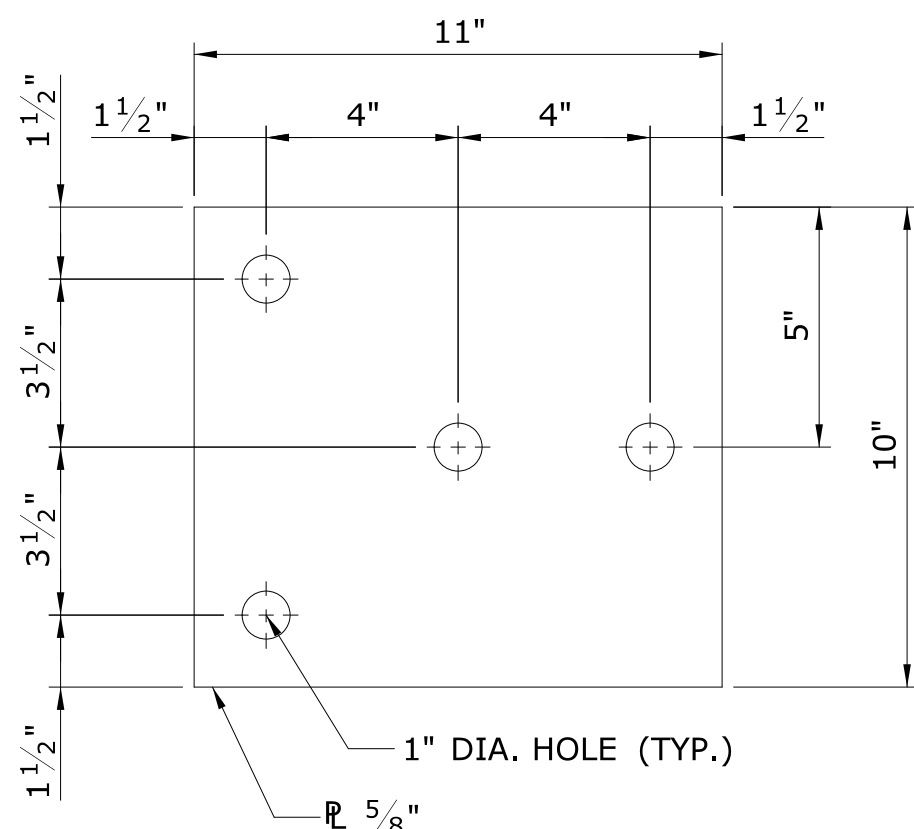
SCALE: 3" = 1'-0"

**R-B 350 BRIDGE ATTACHMENT
TRAILING END (10 GA)**



VIEW C-C

SCALE: 3/4" = 1'-0"



ANCHOR PLATE DETAIL

SCALE: 3" = 1'-0"

NOTE:

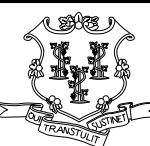
- LEADING END R-B 350 BRIDGE ATTACHMENT JERSEY SHAPE PARAPET (10 GA) AND R-B 350 BRIDGE ATTACHMENT TRAILING END (10 GA) TO BE PAID FOR AS ROADWAY ITEMS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 6/10/2014

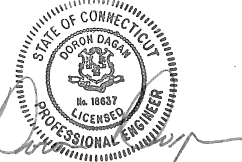
DESIGNER/DRAFTER: R.H.S./D.A.S.
CHECKED BY: J.A.G.
SCALE AS NOTED


STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MST_036_179_MBR.dgn

SIGNATURE/
BLOCK:

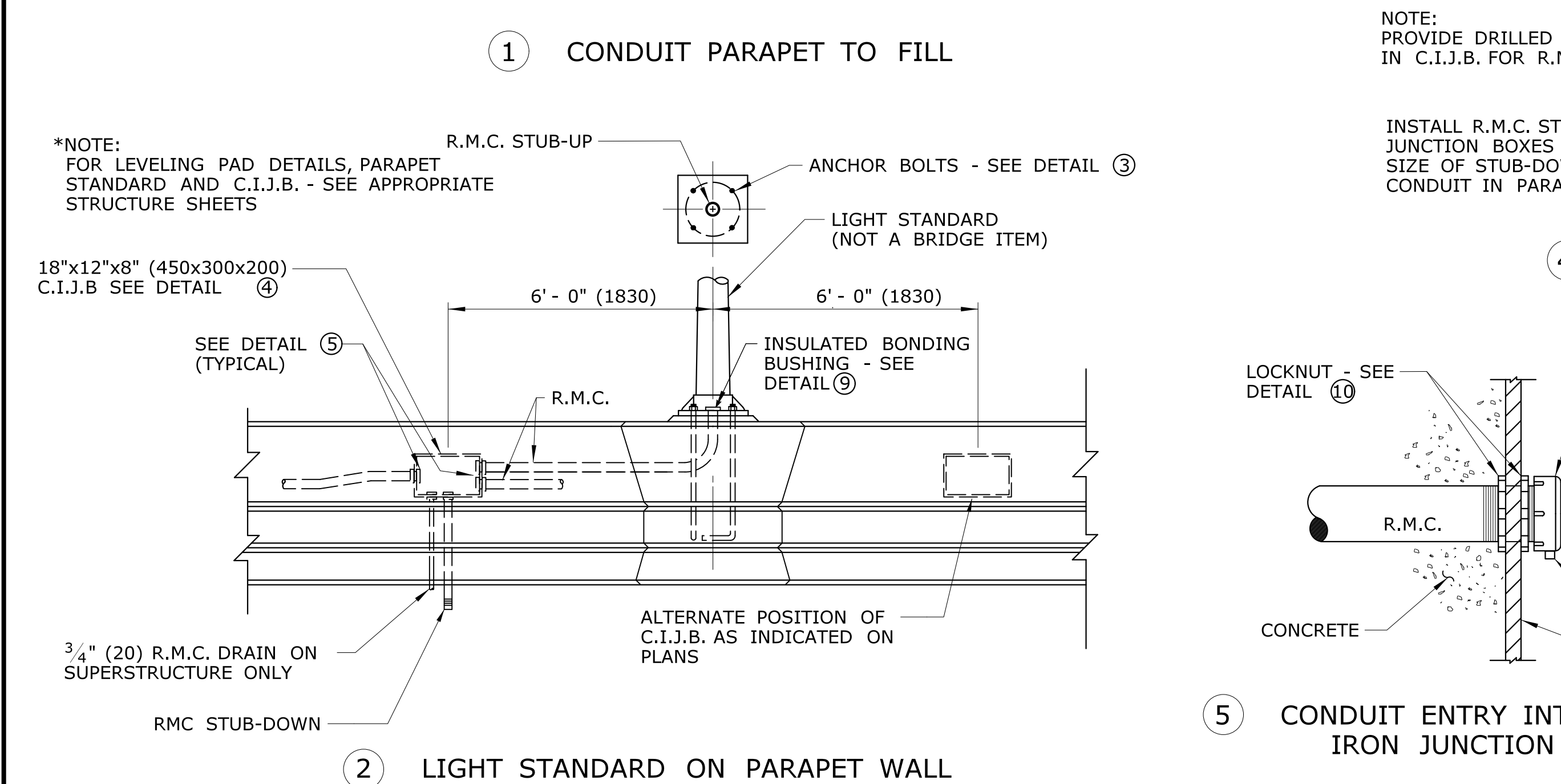
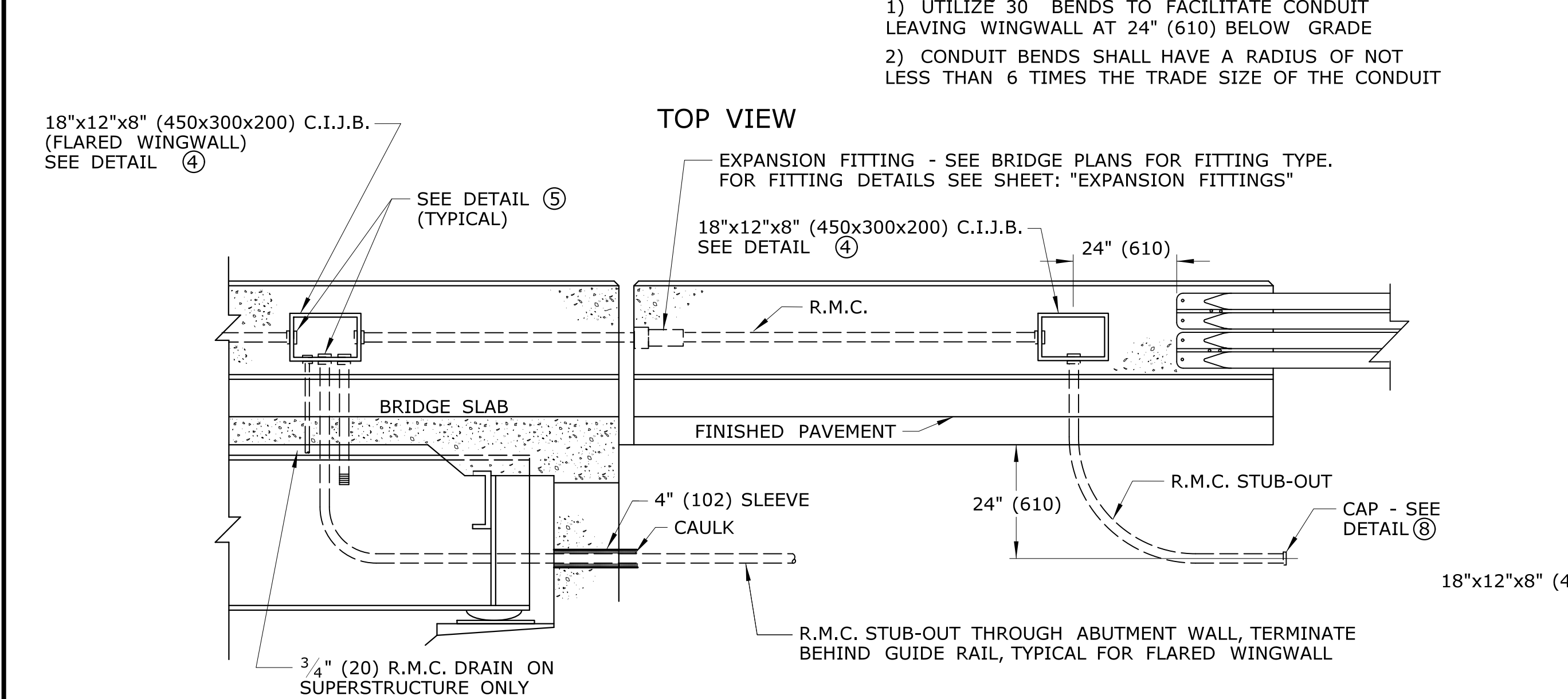
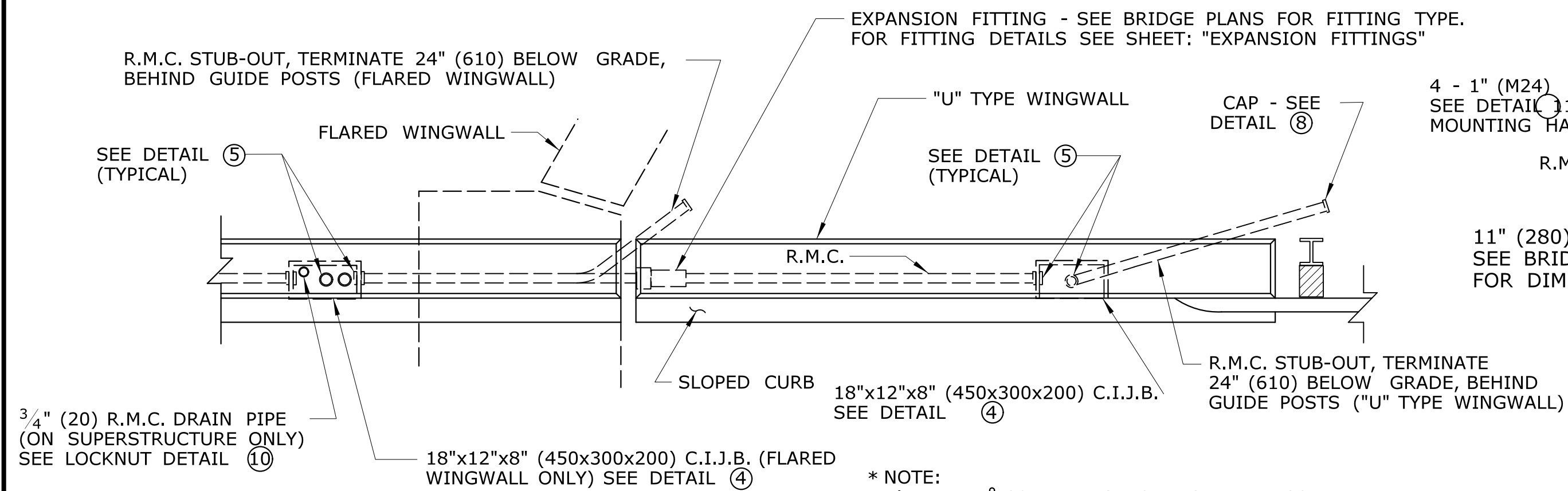
DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451



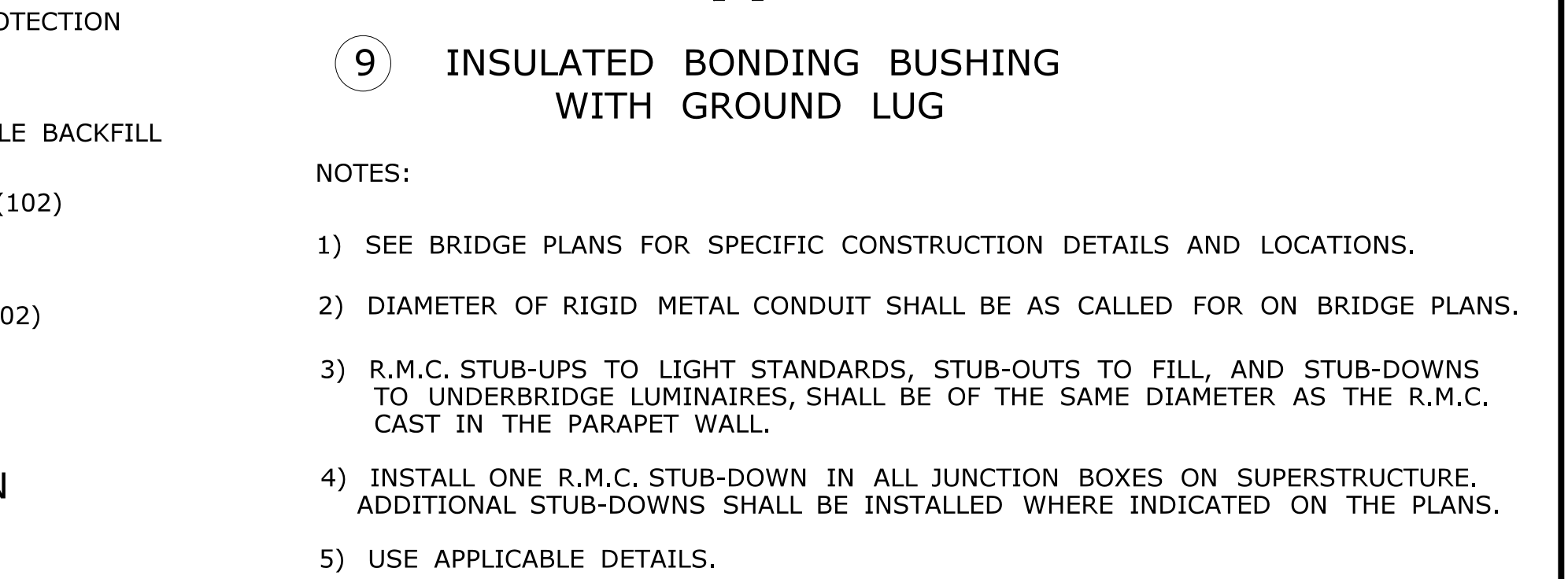
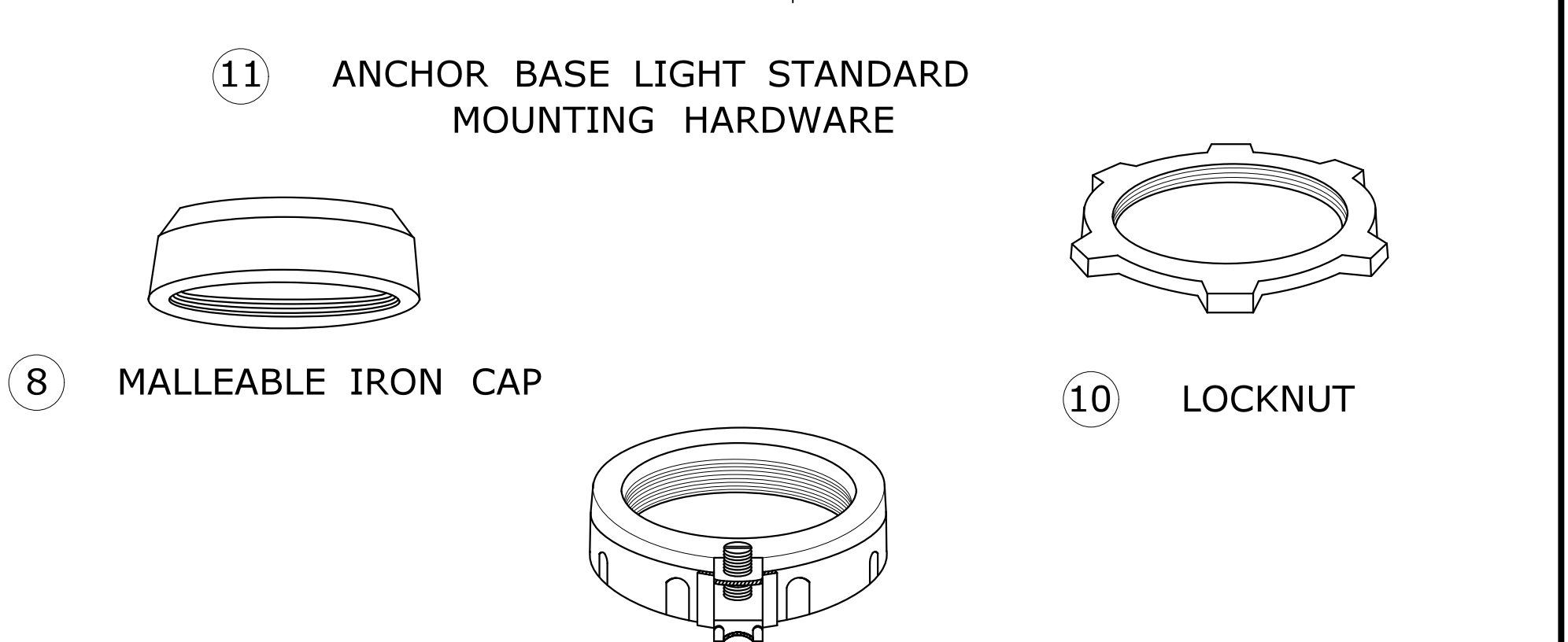
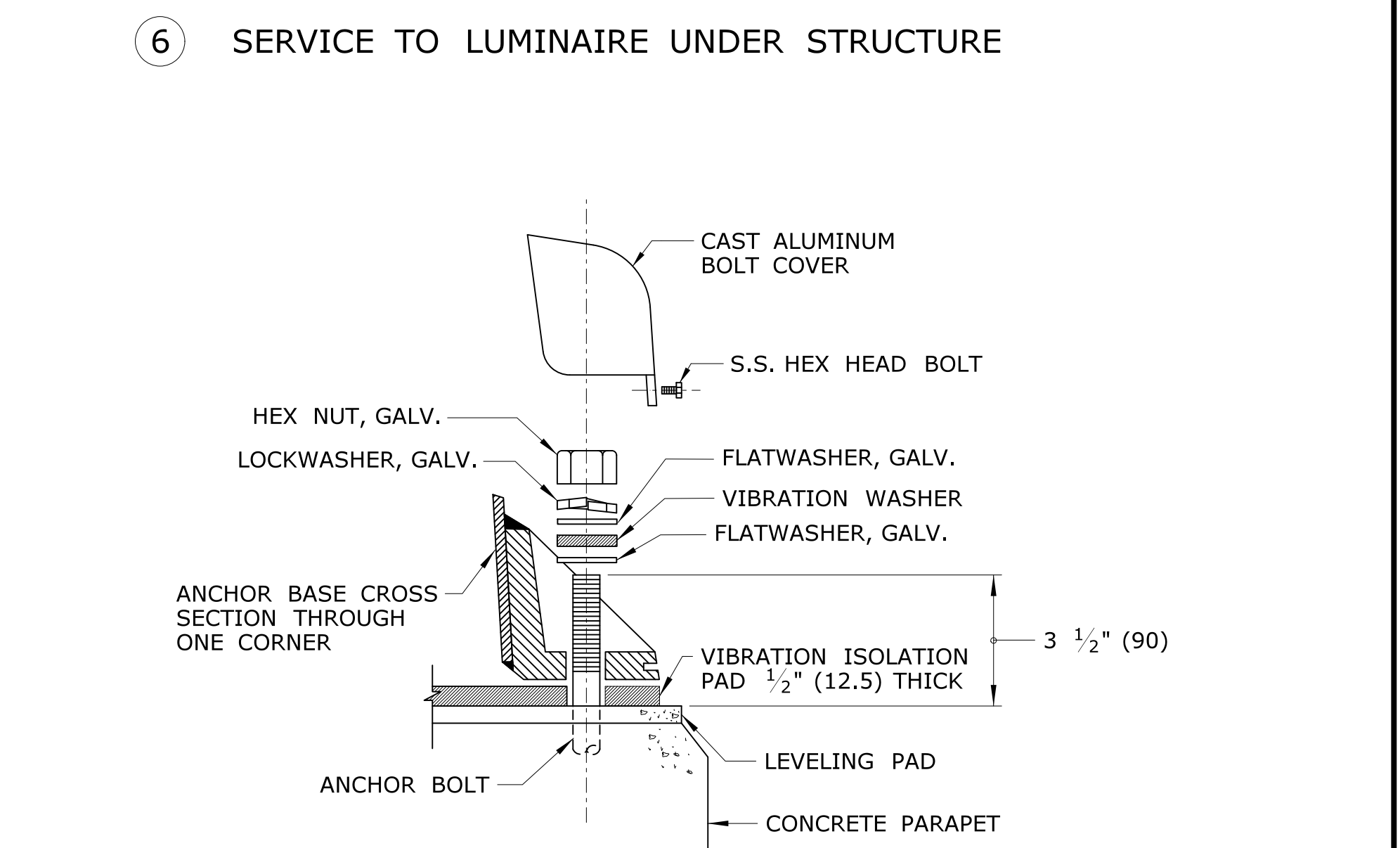
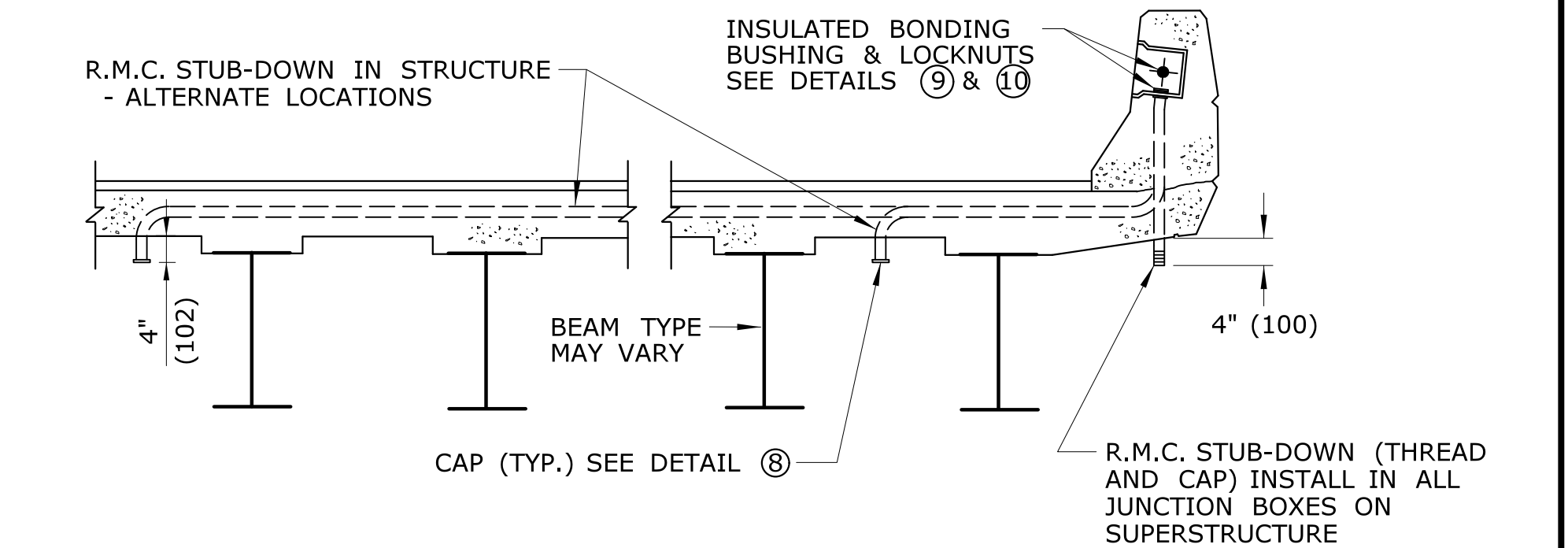
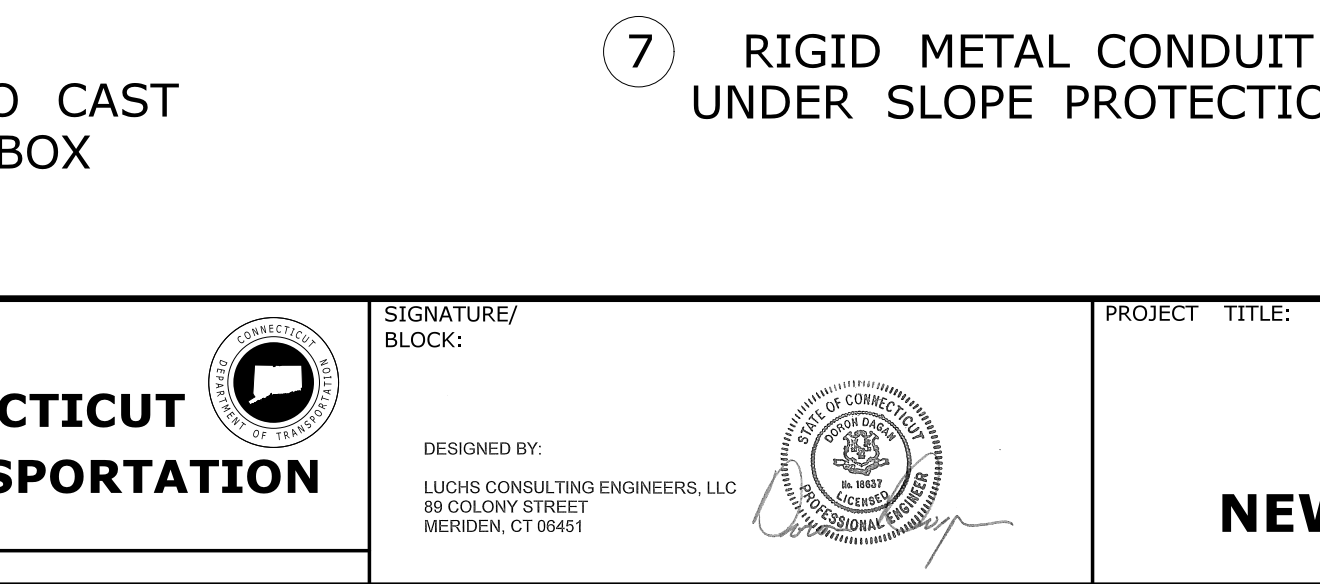
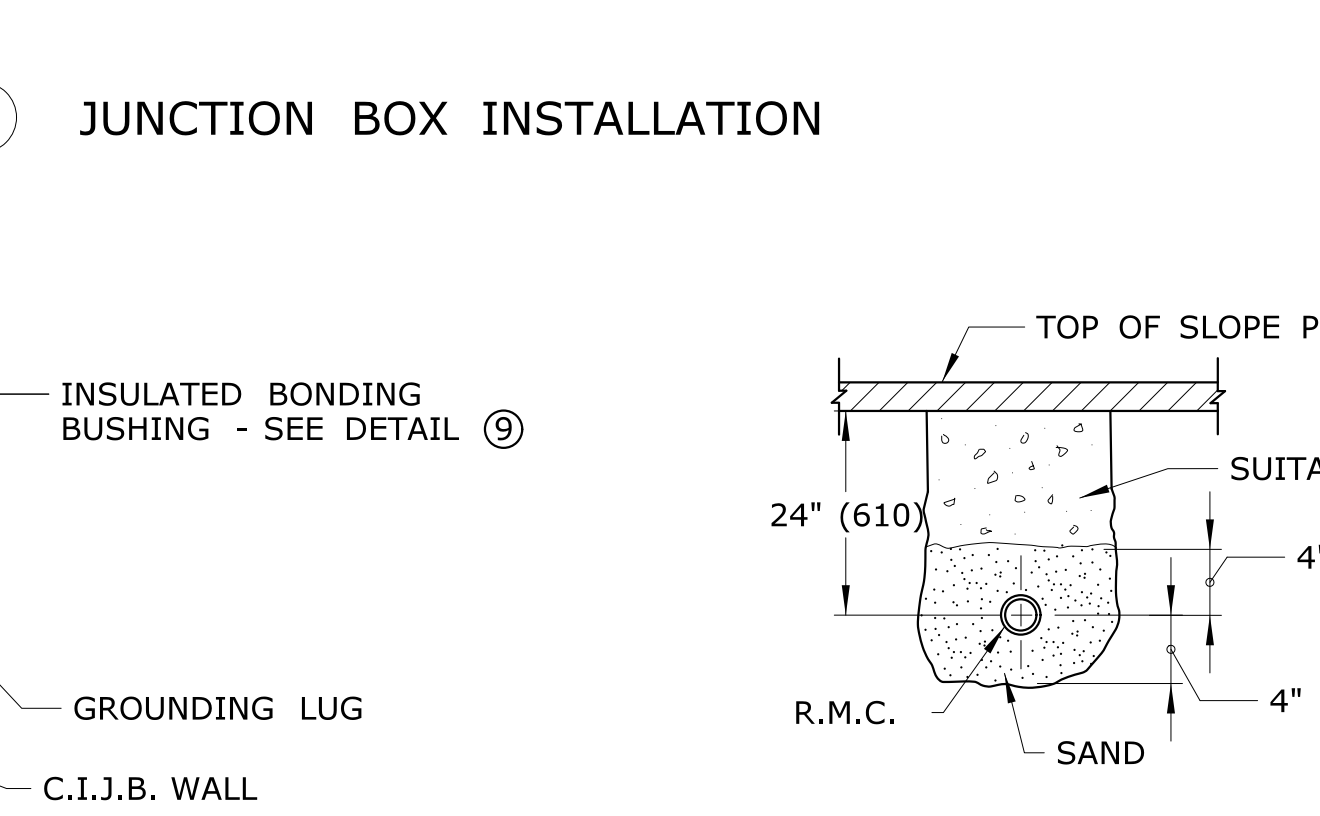
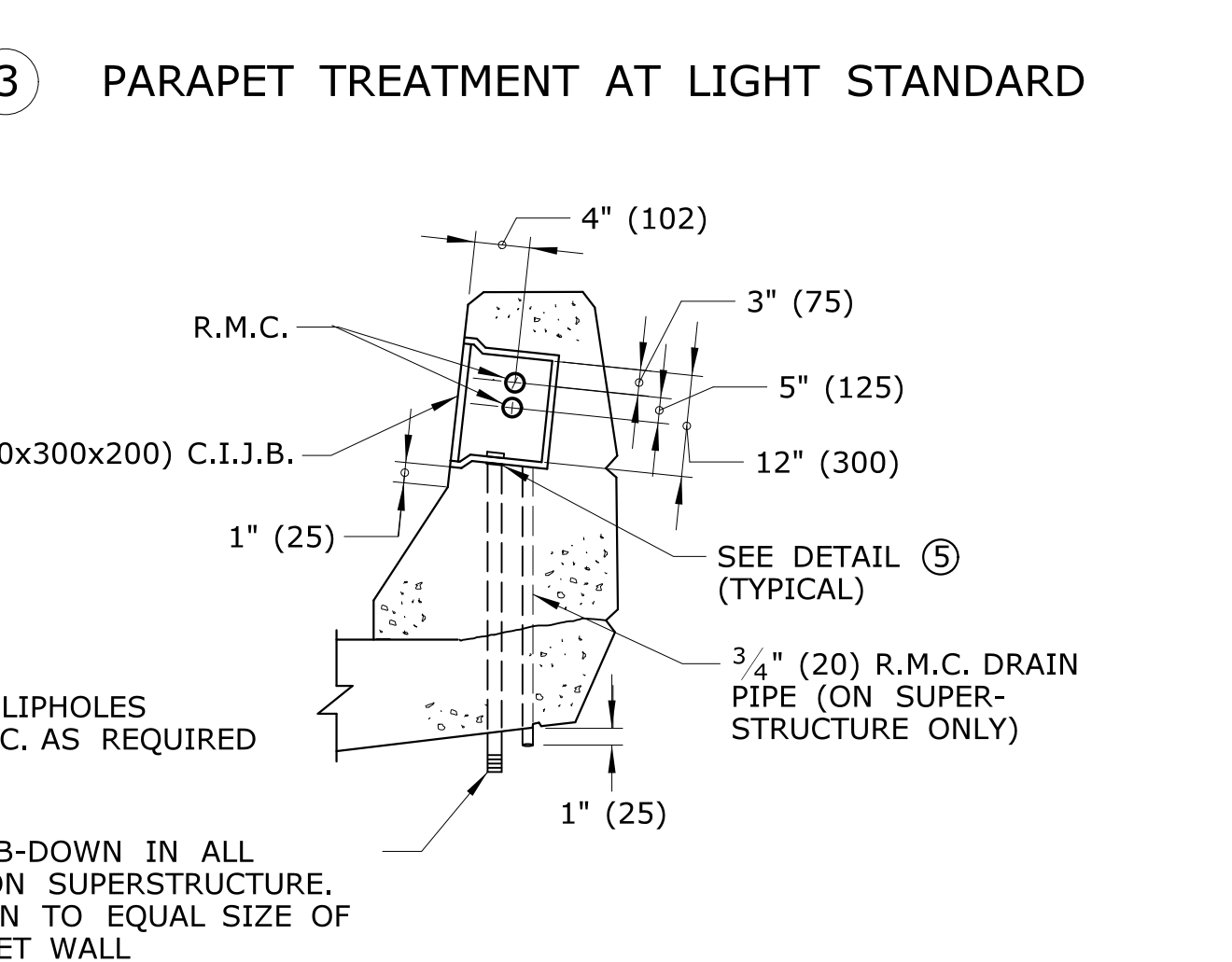
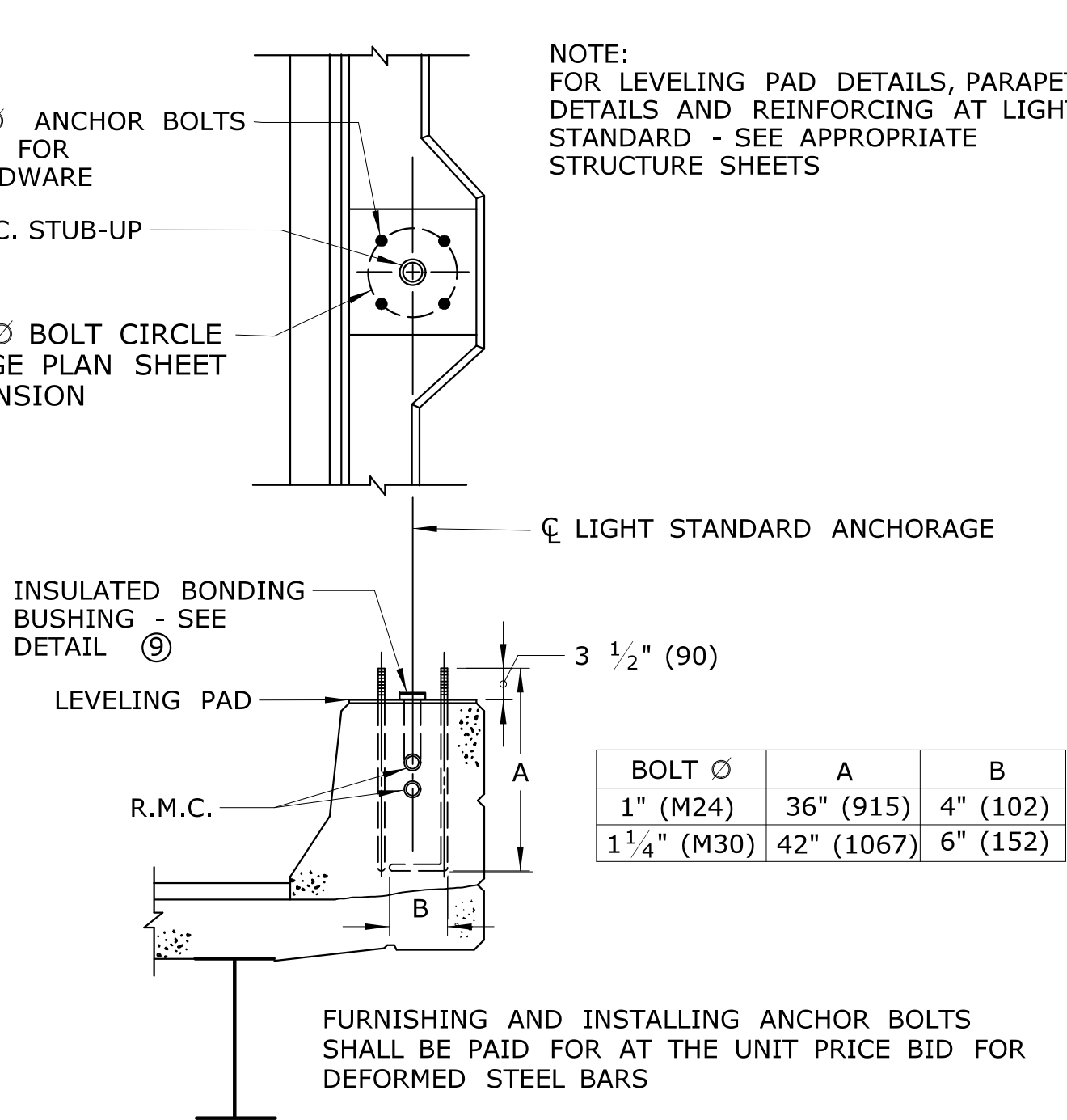
PROJECT TITLE:

**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

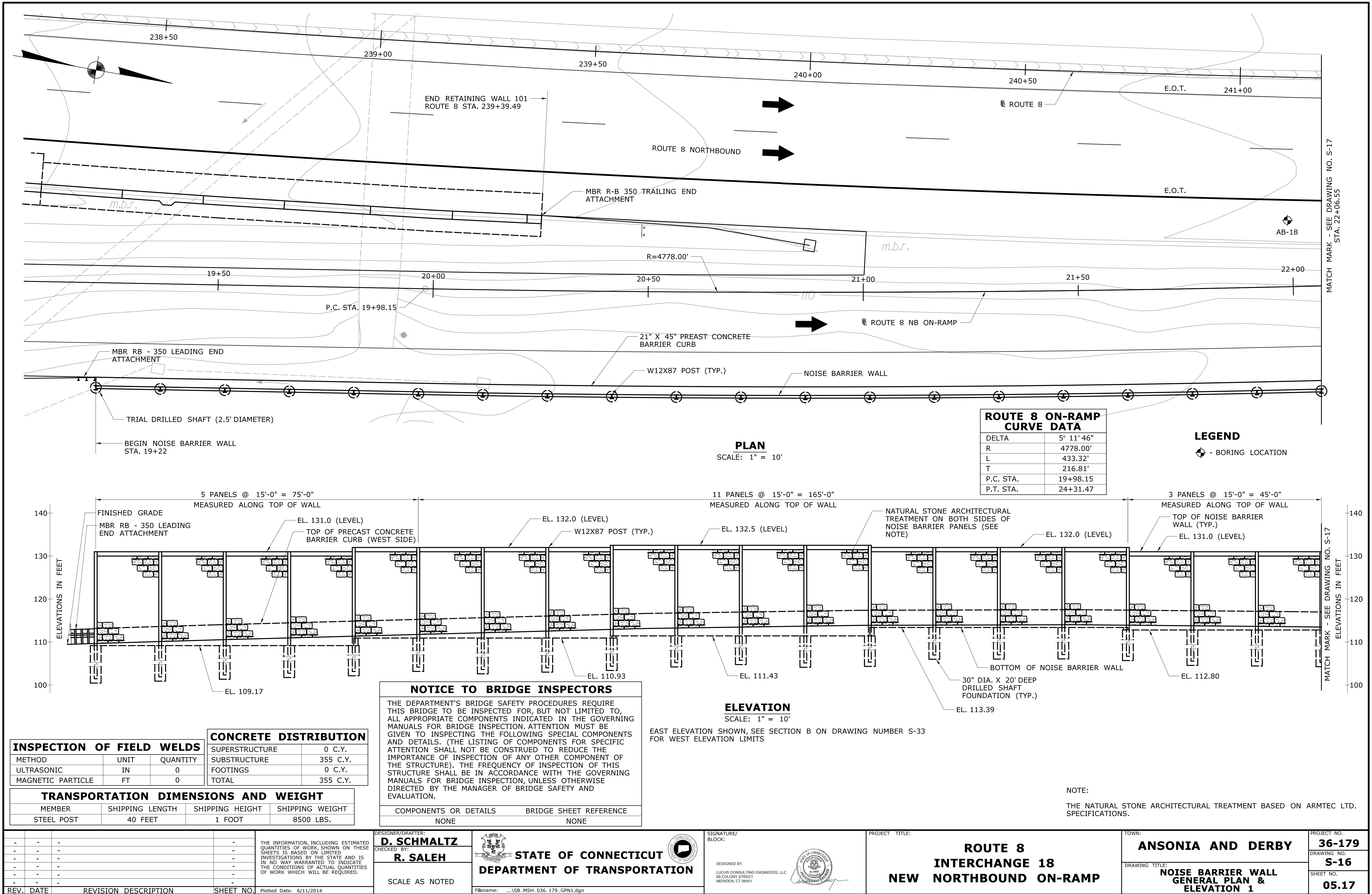
TOWN:	ANSONIA AND DERBY	PROJECT NO.	36-179
DRAWING TITLE:	METAL BEAM RAIL ATTACHMENT DETAILS	DRAWING NO.	S-14
		SHEET NO.	05.15

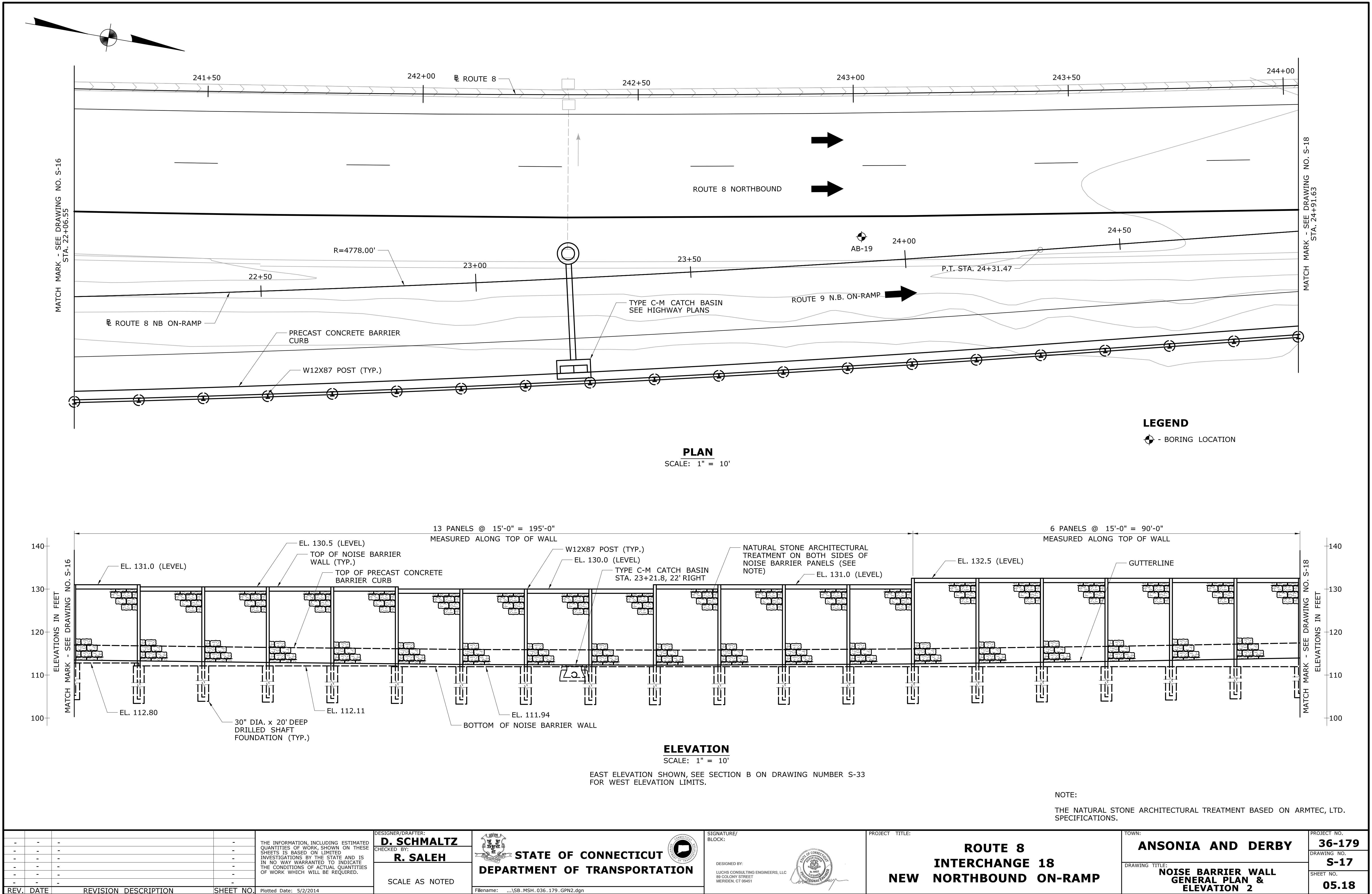


REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/29/2014
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
-	-	-	-	DESIGNER/DRAFTER: MSB
-	-	-	-	CHECKED BY: JA
-	-	-	-	NO SCALE
-	-	-	-	STATE OF CONNECTICUT
-	-	-	-	DEPARTMENT OF TRANSPORTATION
-	-	-	-	Filename: ...\\SB_MST_036_179_ELEC.dgn



PROJECT TITLE:	ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN:	ANSONIA/DERBY	PROJECT NO.	36-179
DRAWING TITLE:	ELECTRICAL DETAILS	DRAWING NO.:	S-15	SHEET NO.:	05.16



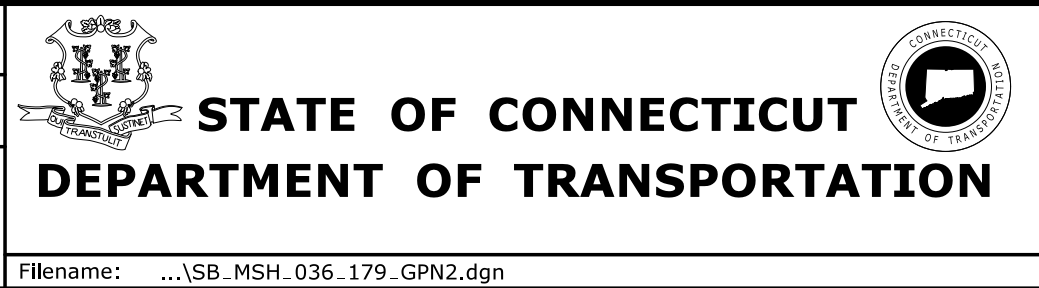


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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/2/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH
SCALE AS NOTED



SIGNATURE/
BLOCK:

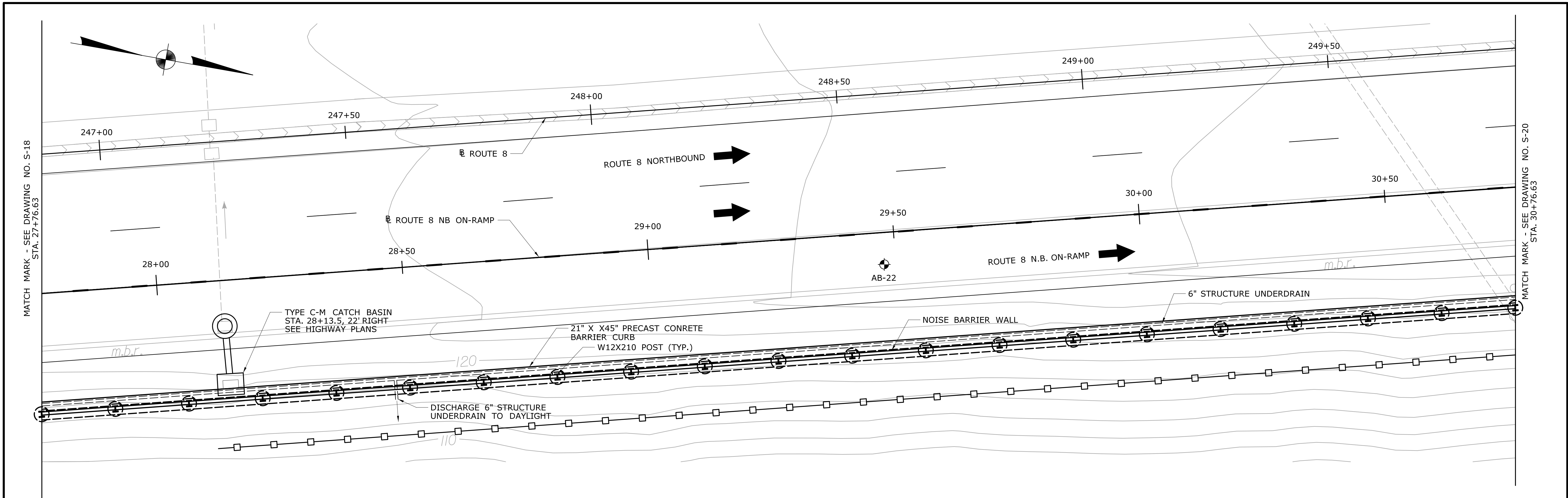
DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451

PROJECT TITLE:
**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

TOWN:
ANSONIA AND DERBY
DRAWING TITLE:
**NOISE BARRIER WALL
GENERAL PLAN &
ELEVATION 2**

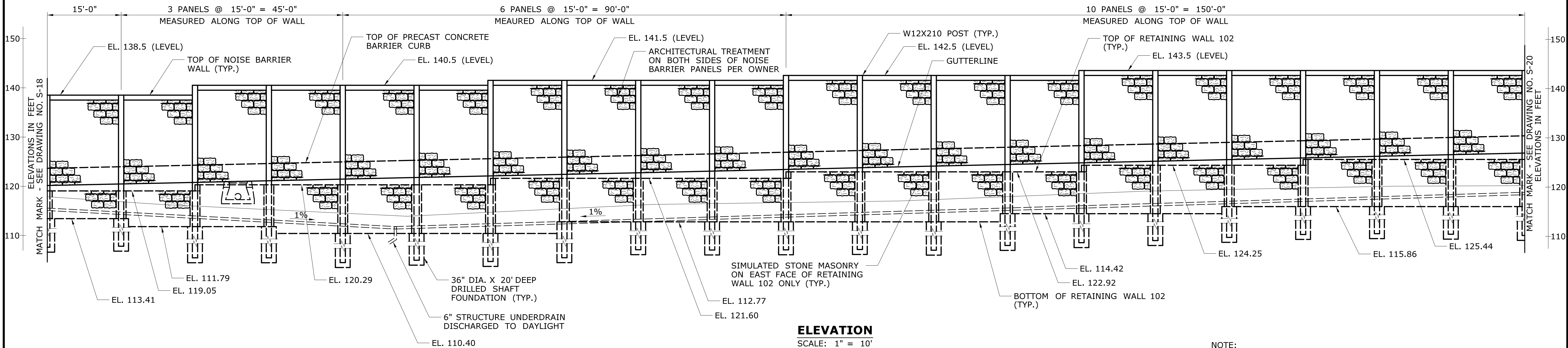
PROJECT NO.
36-179
DRAWING NO.
S-17
SHEET NO.
05.18

[illegible]



PLAN
SCALE: 1" = 10'

LEGEND
- BORING LOCATION



ELEVATION
SCALE: 1" = 10'

EAST ELEVATION SHOWN, SEE SECTION B ON DRAWING NUMBER S-34
FOR WEST ELEVATION LIMITS

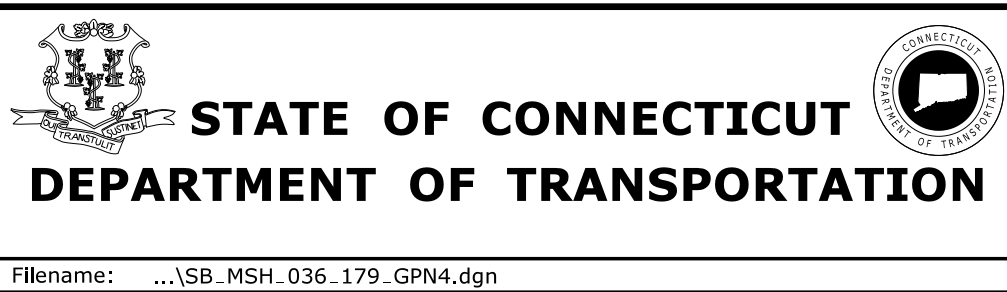
NOTE:
THE NATURAL STONE ARCHITECTURAL TREATMENT IS BASED ON ARMTEC LTD.
SPECIFICATIONS.

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED
QUANTITIES OF WORK, SHOWN ON THESE
SHEETS IS BASED ON LIMITED
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OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/2/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH
SCALE AS NOTED



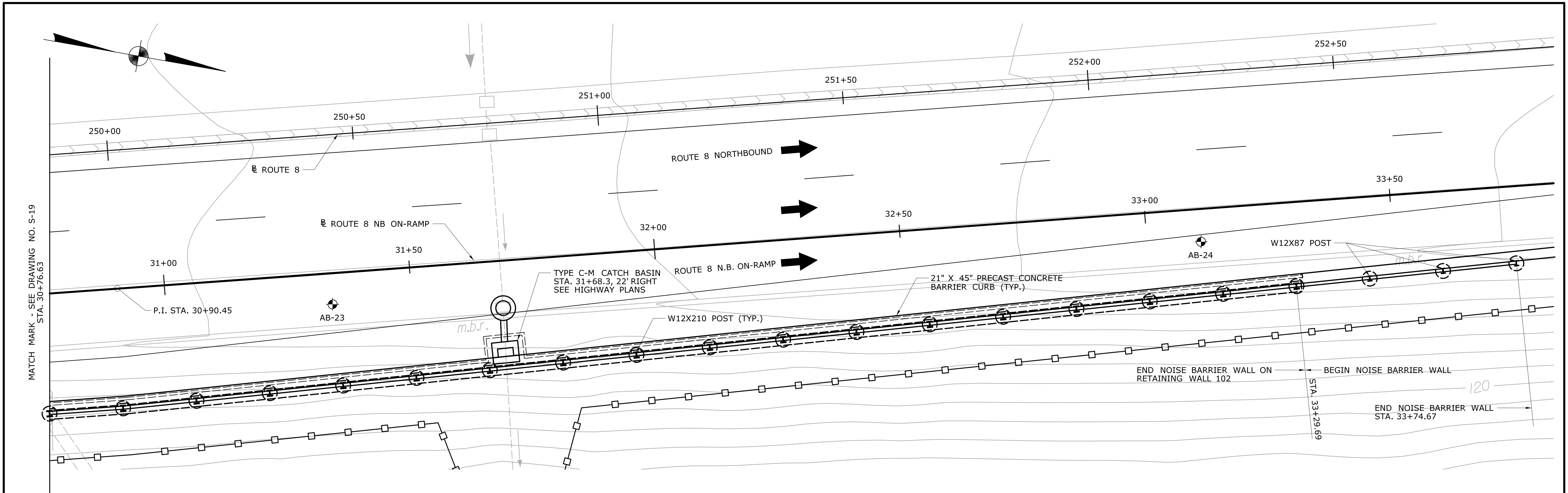
SIGNATURE/
BLOCK:

DESIGNED BY:
LUCAS CONSULTING ENGINEERS, LLC
39 COLONY STREET
MERIDEN, CT 06451

PROJECT TITLE:
**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

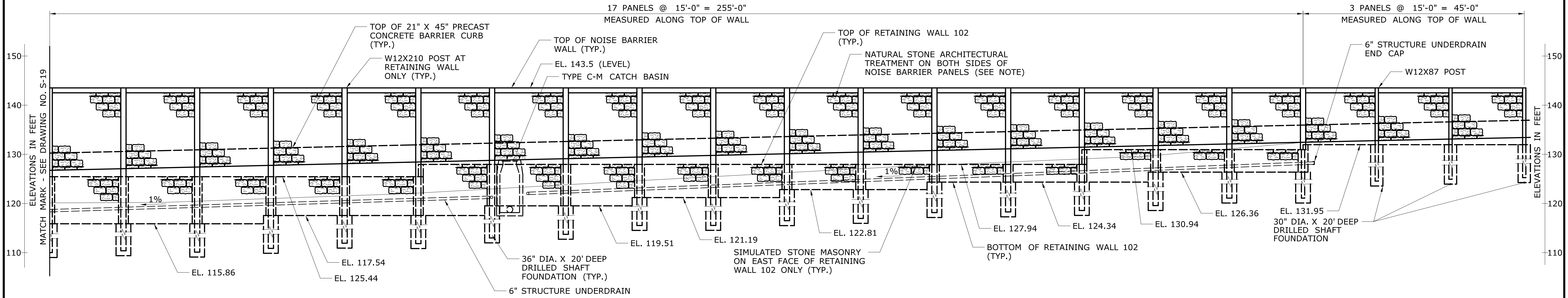
TOWN:
ANSONIA AND DERBY
DRAWING TITLE:
**NOISE BARRIER WALL AND
WALL 102 GENERAL PLAN
& ELEVATION 4**

PROJECT NO.
36-179
DRAWING NO.
S-19
SHEET NO.
05.20



PLAN
SCALE: 1" = 10'

LEGEND
- BORING LOCATION



ELEVATION
SCALE: 1" = 10'

EAST ELEVATION SHOWN, SEE SECTION B ON DRAWING NUMBERS S-33 AND S-34 FOR WEST ELEVATION LIMITS.

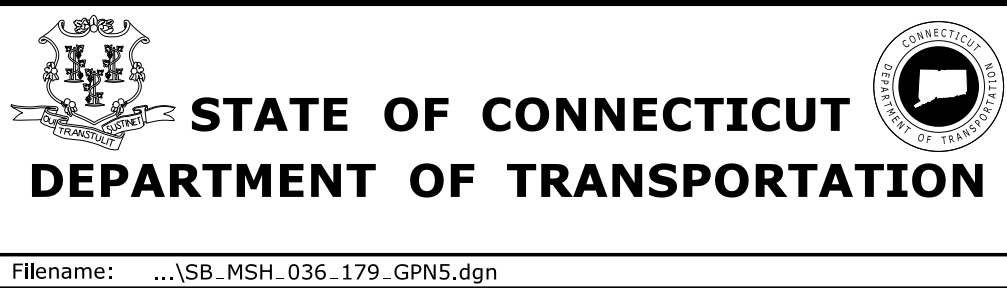
NOTE:
THE NATURAL STONE ARCHITECTURAL TREATMENT IS PER ARMTEC LTD. SPECIFICATIONS.

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-	-	-	-
REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/2/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH
SCALE AS NOTED



SIGNATURE/
BLOCK:

DESIGNED BY:
LUCAS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451

PROJECT TITLE:
**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

TOWN:
ANSONIA AND DERBY
DRAWING TITLE:
**NOISE BARRIER WALL AND
WALL 102 GENERAL PLAN
& ELEVATION 5**

PROJECT NO.
36-179
DRAWING NO.
S-20
SHEET NO.
05.21

QUANTITIES		
ITEM	UNIT	QUANTITY
COMPACTED GRANULAR FILL	C.Y.	95
PERVIOUS STRUCTURE BACKFILL	C.Y.	1350
CLASS "A" CONCRETE	C.Y.	355
SIMULATED STONE MASONRY	S.Y.	470
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	S.F.	5500
DEFORMED STEEL BARS	LBS.	55000
6" C.C.M. PIPE	L.F.	10
OBSTRUCTIONS	HR.	40
FURNISHING DRILLED SHAFT DRILLING EQUIPMENT	L.S.	L.S.
TRIAL DRILLED SHAFT (2.5' DIAMETER)	L.F.	20
TRIAL DRILLED SHAFT (3.0' DIAMETER)	L.F.	20
DRILLED SHAFT (2.5 FT)	L.F.	1200
DRILLED SHAFT ROCK EXCAVATION (2.5 FT)	L.F.	60
DRILLED SHAFT EARTH EXCAVATION (2.5 FT)	L.F.	1200
DRILLED SHAFT (3.0' DIAMETER)	L.F.	820
DRILLED SHAFT ROCK EXCAVATION (3' DIAMETER)	L.F.	42
DRILLED SHAFT EARTH EXCAVATION (3.0' DIAMETER)	L.F.	820
INTEGRITY TESTING - CROSS HOLE	EA.	50
ACCESS TUBES	L.F.	4000
DAMPPROOFING	S.Y.	470
6" STRUCTURE UNDERDRAIN	L.F.	600
NOISE BARRIER WALL	S.F.	27000

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2014 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS - 6TH EDITION, 2012 WITH INTERIM SPECIFICATIONS INCLUDING AND UP TO 2013 AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:

CLASS "A" CONCRETE	BASED ON $f_c = 3300$ PSI
REINFORCEMENT (ASTM A615 GRADE 60)	$f_y = 60,000$ PSI
STRUCTURAL STEEL (POSTS) (AASHTO M270 GRADE 50)	$f_y = 50,000$ PSI

NOISE BARRIER WALL DESIGN CRITERIA:

WIND VELOCITY:	110 MPH
WIND PRESSURE:	38 PSF

LIVE LOAD: AASHTO HL93 LOADING

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE GIVEN IN FEET. WHEN ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

EXISTING DIMENSIONS: THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

EXISTING UTILITIES: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERT ELEVATIONS FOR ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.

CONCRETE NOTES

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE ARE NOT ALLOWED.

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR RETAINING WALL 102.

DRILLED SHAFTS: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

PREFORMED EXPANSION JOINT FILLER: THE PREFORMED EXPANSION JOINT FILLER WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT UNDER THE ITEM "1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES" COMPLETE IN PLACE, WHICH PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENT, TOOLS, LABOR AND WORK INCIDENTAL THERETO.

NOISE BARRIER WALL: SEE SPECIAL PROVISIONS.



LIST OF NOISE BARRIER WALL MANUFACTURERS

ARMTEC LTD. 8270 GREENSBORO DRIVE MCLEAN, VA 22102 (860) 873-1737	CONCRETE INNOVATION SERVICES 4212 LAFAYETTE CENTER DRIVE SUITE 1-A CHANTILLY, VA 20151 (703) 222-9702
--	--

CONCRETE SOLUTIONS, INC.
3300 BEE CAVE ROAD, SUITE 650
AUSTIN, TX 78746
(512) 327-8481

STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL (LOW ALLOY) POSTS, CONNECTION PLATES, AND MISC. HARDWARE SHALL CONFORM TO AASHTO M270, GRADE 50, $F_y = 50,000$ PSI, AND SHALL BE HOT DIPPED GALVANIZED.
- THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS DURING CONSTRUCTION TO INSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN PLACE.
- LENGTH DIMENSIONS ARE HORIZONTAL.
- THE W12X87 STEEL POSTS SHALL BE USED WITHIN THE LIMITS OF THE NOISE BARRIER WALL ONLY. THE W12X210 STEEL POSTS SHALL BE USED WITHIN THE LIMITS OF THE NOISE BARRIER WALL AND RETAINING WALL 102 COMBINED.



-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: D. SCHMALTZ	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 89 COLONY STREET MERIDEN, CT 06451	PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN: ANSONIA AND DERBY	PROJECT NO. 36-179		
-	-	-		CHECKED BY: R. SALEH					DRAWING NO. S-21		
-	-	-		SCALE AS NOTED					SHEET NO. 05.22		
-	-	-									
-	-	-									
REV.	DATE	REVISION DESCRIPTION		SHEET NO.					Plotted Date: 6/11/2014	Filename: ...\\SB_MSH_036_179_GEN.dgn	

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-18		
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 21+99/15.43 LT		
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905960.6		
Start Date: 12-11-13		Location: Route 8				Easting: 685627.59		
Finish Date: 12-11-13		Bridge No.:				Surface Elevation: 113.9		
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll		
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type: NX diamond		
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.		
Groundwater Observations: @Water at 15 feet after coring water at 21 feet after 1 hours								
SAMPLES								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						ASPHALT	6 in asphalt.	
	S-1	11 13 17 12	24	8		BRN FC SAND	Brown fine coarse SAND, some fine coarse gravel, little silt, occasional cobbles, fill.	110
5	S-2	13 50	12	8		SOME FC GRAVEL, LTL SILT, FILL	Brown fine coarse SAND, some fine coarse gravel, little silt, occasional cobbles, fill.	105
10	S-3	1 5 6 8	24	12		BRN F	Brown fine sand and silt, trace organics.	100
	S-4	9 11 9 12	24	10		SAND & SILT	Brown fine sand and silt, trace organics.	95
15	S-5	8 10 10 12	24	14		BRN FC SAND SOME SILT	Brown fine coarse SAND, some silt.	90
20	S-6	4 4 6 9	24	21			Brown fine coarse SAND, some silt.	85
25	S-7	2 5 9 10	24	14		GRY BRN F SAND & SILT	Gray brown fine SAND and silt, laminations.	80
30	S-7	7 8 13 14	24	24		GRY BRN FC SAND LTL SILT	Gray brown fine coarse SAND, little silt.	75
35						GRY SCHIST	Gray slightly weathered, medium grained interlayered SCHIST and granofels.	
40	C-1		60	40	20		END OF BORING 40ft	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in			NOTES: CME 55 Truck Mounted Rig was used.				Sheet 1 of 1	
Earth: 35ft Rock: 5ft								
No. of Soil Samples: 8 No. of Core Runs: 1		SM-001-AETrev.0/0						

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-20					
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 25+78/4.37RT					
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905892.95					
Start Date: 12-12-13		Location: Route 8				Easting: 686000.53					
Finish Date: 12-12-13		Bridge No.:				Surface Elevation: 116.2					
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll					
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type: NX diamond					
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.					
Groundwater Observations: @Water at 20 feet											
SAMPLES						Generalized Strata Description	Material Description and Notes	Elevation (ft)			
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)	RQD %	
40	S-9	10	14	28	19	24	9	GRY SCHIST	Brown fine coarse SAND, little fine coarse gravel, trace silt.	75	
45	C-1					60	22		15	Gray slightly weathered, medium grained interlayered SCHIST and granofels.	70
50										END OF BORING 48.5ft	65
55										60	
60										55	
65										50	
70										45	
75										40	
80											
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%											
Total Penetration in						NOTES: CME 55 Truck Mounted Rig was used.				Sheet 2 of 2	
Earth: 43.5ft Rock: 5ft											
No. of Soil Samples: 9 No. of Core Runs: 1											
SM-001-AETrev.9/00											

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-21		
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 27+60/6.29 RT		
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905850.32		
Start Date: 12-13-13		Location: Route 8				Easting: 686177.81		
Finish Date: 12-13-13		Bridge No.:				Surface Elevation: 119.9		
Project Description: Route 8 Ramp		18 North				Prime Engineer: Decalo & Doll		
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:		
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.		
Groundwater Observations: @Water at 25 feet								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)			
0							6 in asphalt	
	S-1	18	20 16 25	24	8		Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	
5								
	S-2	5	15 20 15	24	8	ASPHALT GRY BROWN FC SAND & FC GRAVEL LTL SILT, BOULDERS, FILL	Gray brown fine coarse SAND, and fine coarse gravel, occasional cobbles and boulders.	115
10							Boulders at 8 and 12 feet	110
15								
	S-3	7	14 36 31	24	10		Gray brown fine coarse SAND, and fine coarse gravel, occasional cobbles and boulders.	105
20								
	S-4	2	5 8 13	24	14	GRY F SAND & SILT	Gray fine SAND and silt, trace organic at 19 feet.	100
25								
	S-5	14	17 13 14	24	18		Gray fine SAND and silt. Brown fine SAND, little to some silt, laminations.	95
30								
	S-6	3	5 4 4	24	24	GRY BRNF SAND SOME SILT	Brown fine SAND, little to some silt, laminations.	90
35								
	S-7	1	4 6 6	24	18		Gray fine SAND, little to some silt, trace clay.	85
40								80
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 62ft Rock: 0ft				NOTES: CME 55 Truck Mounted Rig was used.				Sheet 1 of 2
No. of Soil Samples: 12		No. of Core Runs: 0						
SM-001-AETrev.9/00								

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-21					
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 27+60/6.29 RT					
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905850.32					
Start Date: 12-13-13		Location: Route 8				Easting: 686177.81					
Finish Date: 12-13-13		Bridge No.:				Surface Elevation: 119.9					
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll					
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:					
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.					
Groundwater Observations: @Water at 25 feet											
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)			
	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)	RQD %	
40	S-8	2	3	5	5	24	24	GRY BRN F SAND SOME SILT (cont)	Gray fine SAND, little to some silt, trace clay.		
45	S-9	3	5	15	41	24	24	BRN FC SAND & FC GRAVEL	Gray fine SAND, little to some silt, trace clay.	75	
50	S-10	12	15	12	21	24	12	Brown fine coarse SAND and fine coarse gravel, trace silt.	Brown fine coarse SAND and fine coarse gravel, trace silt.	70	
55	S-11	7	10	13	20	24	8	Brown fine coarse SAND and fine coarse gravel, trace silt.	Brown fine coarse SAND and fine coarse gravel, trace silt.	65	
60	S-12	10	11	40	75	24	6	Brown fine coarse SAND and fine coarse gravel, trace silt.	Brown fine coarse SAND and fine coarse gravel, trace silt.	60	
65								END OF BORING 62ft		55	
70											
75										45	
80										40	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%											
Total Penetration in						NOTES: CME 55 Truck Mounted Rig was used.				Sheet 2 of 2	
Earth: 62ft		Rock: 0ft									
No. of Soil Samples: 12		No. of Core Runs: 0				SM-001-AETrev.9/00					

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: D. SCHMALTZ CHECKED BY: R. SALEH	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 29 COLONY STREET MERIDEN, CT 06451 	PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN: ANSONIA AND DERBY	PROJECT NO. 36-179
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/5/2014		Filename: ...\\SB_MSH_036_179_BOR2.dgn			DRAWING TITLE: NOISE BARRIER WALL AND WALL 102 BORING LOGS 2	SHEET NO. 05.24

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-22		
Inspector: R. Beniwal		Town: Ansonia		Stat./Offset: 29+47/6.47 RT		Northing: 29+47/6.47 RT		
Soil Engr: Applied Earth Tech.		Project No.: 36-176		Northing: 905804.76		Easting: 686359.48		
Start Date: 12-18-13		Location: Route 8		Easting: 686359.48		Surface Elevation: 124.4		
Finish Date: 12-18-13		Bridge No.:		Surface Elevation: 124.4		Prime Engineer: Decalo & Doll		
Project Description: Route 8 Ramp 18 North								
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in		Core Barrel Type:				
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in		ROPE		Boring Co: Associate Borings CO.		
Groundwater Observations: @Water at 25 feet								
SAMPLES								
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						ASPHALT OVER TRAPROCK / GRY BRN FC SAND & FC GRAVEL LTL SILT. BOULDERS, FILL	6 in asphalt over 14 in traprock	
	S-1	16 19 15	18	8			Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	120
5	S-2	12 9 11 19	24	3			Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	115
10	S-3	13 14 11 15	24	4			Gray brown fine coarse SAND, and fine coarse gravel, occasional cobbles and boulders.	110
15	S-4	5 23 32 14	24	9			Gray brown fine coarse SAND, and fine coarse gravel, occasional cobbles and boulders.	105
20	S-5	12 5 4 4	24	8		GRY BLK ORGANIC SAND & SILT	Gray black organic fine SAND and silt.	100
	S-6	5 4 3 4	24	10			Gray black organic fine SAND and silt.	95
25	S-7	3 3 1 1	24	6		GRY BRN FC SAND & SILT	Gray fine SAND and silt	90
30	S-8	3 4 2 7	24	24			Gray fine SAND and silt	85
35	S-9	2 5 6 7	24	12			Gray brown fine SAND, and to some silt, trace clay, laminations.	
40								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 62ft Rock: 0ft			NOTES: CME 55 Truck Mounted Rig was used.				Sheet 1 of 2	
No. of Soil Samples: 14 No. of Core Runs: 0							SM-001-AETrev.9/09	



Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-8

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-22					
Inspector: R. Beniwal		Town: Ansonia		Stat./Offset: 29+47/6.47 RT							
Soil Engr: Applied Earth Tech.		Project No.: 36-176		Northing: 905804.76							
Start Date: 12-18-13		Location: Route 8		Easting: 686359.48							
Finish Date: 12-18-13		Bridge No.:		Surface Elevation: 124.4							
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll					
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:					
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs		Fall: 30 in		ROPE					
Boring Co: Associate Borings CO.											
Groundwater Observations: @Water at 25 feet											
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)			
	Sample Type/No.	Blows on Sampler per 6 inches							Pen. (in.)	Rec. (in.)	RQD %
40	S-10	2	5	6	10	24	24		GRY BRN F SAND & SILT (cont)	Gray brown fine SAND, and to some silt, trace clay, laminations.	
45	S-11	6	19	30	19	24	24				
50	S-12	19	30	29	31	24	12		BRN FC --- SAND & FC GRAVEL LTL SILT	Brown fine coarse SAND and fine coarse gravel, little silt.	80
55	S-13	3	10	16	36	24	12				
60	S-14	16	9	19	42	24	12			Brown fine coarse SAND and fine coarse gravel, little silt.	75
65										Brown fine coarse SAND and fine coarse gravel, little silt.	70
70										Brown fine coarse SAND and fine coarse gravel, little silt.	65
75										Brown fine coarse SAND and fine coarse gravel, little silt.	60
80										END OF BORING 62ft	55
											50
											45
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test											
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%											
Total Penetration in		NOTES: CME 55 Truck Mounted Rig was used.									
Earth: 62ft Rock: 0ft											
No. of Soil Samples: 14		No. of Core Runs: 0									
SM-001-AETrev.9/09											





Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-9

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-23			
Inspector: R. Beniwal		Town: Ansonia		Stat./Offset: 31+33/6.44 RT					
Soil Engr: Applied Earth Tech.		Project No.: 36-176		Northing: 905759.25					
Start Date: 12-19-13		Location: Route 8		Easting: 686540.04					
Finish Date: 12-19-13		Bridge No.:		Surface Elevation: 125.5					
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll			
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:			
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs		Fall: 30 in		ROPE			
						Boring Co: Associate Borings CO.			
Groundwater Observations: @no water									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No	Blows on Sampler per 6 inches							Pen. (in.)
0						ASPHALT BRNT FC SAND & FC GRAVEL LTL SILT BOULDERS, FILL	5 in asphalt	125	
	S-1	12	18	18	21		24	8	Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill
5	S-2	3	3	6	16		24	3	Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill
10								END OF BORING 11ft	115
15									110
20									105
25									100
30									95
35									90
40									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in		NOTES: CME 55 Truck Mounted Rig was used.						Sheet 1 of 1	
Earth: 11ft Rock: 0ft									
No. of Soil Samples: 2 No. of Core Runs: 0									
SM-001-AETrev.9/09									





Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-10

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: D. SCHMALTZ CHECKED BY: R. SALEH	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 39 COLONY STREET MERIDEN, CT 06451 	PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN: ANSONIA AND DERBY DRAWING TITLE: NOISE BARRIER WALL AND WALL 102 BORING LOGS 3	PROJECT NO. 36-179
-	-	-	-							DRAWING NO. S-24
-	-	-	-							SHEET NO. 05.25
-	-	-	-							
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-	-	-	-							
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 5/5/2014		Filename: ...\\SB_MSH_036_179_BOR3.dgn			

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-23A		
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 31+30.5/6.44 RT		
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905759.25		
Start Date: 12-19-13		Location: Route 8				Easting: 686540.04		
Finish Date: 12-19-13		Bridge No.:				Surface Elevation: 125.5		
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll		
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type: NX		
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.		
Groundwater Observations: @no water								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %			
0						ASPHALT / GRV BRN FC SAND & FC GRAVEL LTL SILT LARGE BOULDERS, FILL	5 in asphalt	125
5								120
10	S-3	12 35	23	3			Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	115
15	C-1		60	40	60		Cored boulder at 12 feet	110
	S-4	18 100/5"	11	5			Gray brown fine coarse SAND, and fine coarse gravel, occasional cobbles and boulders.	
20	C-2		60	8			Cored boulder at 18 feet.	105
25	S-5	11 13 24 22	24	4			Gray brown fine coarse SAND, and fine coarse gravel, occasional cobbles and boulders, fill.	100
							END OF BORING 25ft	
30								95
35								90
40								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 20ft Rock: 5ft			NOTES: CME 55 Truck Mounted Rig was used.					Sheet 1 of 1
No. of Soil Samples: 3 No. of Core Runs: 1								
SM-001-AETrev.9/00								

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-23B			
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 31+38.5/6.44 RT			
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905759.25			
Start Date: 12-19-13		Location: Route 8				Easting: 686540.04			
Finish Date: 12-19-13		Bridge No.:				Surface Elevation: 125.5			
Project Description: Route 8 Ramp 18 North				Prime Engineer: Decalo & Doll					
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:			
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.			
Groundwater Observations: @Water at 30 feet									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)
0						ASPHALT GRY BRN FC SAND & FC GRAVEL LTL SILT, BOULDERS, FILL	5 in asphalt	125	
5							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	120	
10								115	
15								110	
20								105	
25						GRY BRN F SAND & SILT	Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	100	
	S-5	31	17	3	10		24	8	
	S-7	21	26	24	32		24	16	
30								Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	
	S-8	7	15	13	19		24	8	95
35							Brown fine SAND some silt	90	
	S-9	7	14	10	10	24	20		
40							Brown fine SAND some silt		
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in		NOTES: CME 55 Truck Mounted Rig was used.						Sheet 1 of 2	
Earth: 62ft Rock: 0ft									
No. of Soil Samples: 9		No. of Core Runs: 0						SM-001-AETrev.9/00	

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-23B				
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 31+38.5/6.44 RT				
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905759.25				
Start Date: 12-19-13		Location: Route 8				Easting: 686540.04				
Finish Date: 12-19-13		Bridge No.:				Surface Elevation: 125.5				
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll				
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:				
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.				
Groundwater Observations: @Water at 30 feet										
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)	ROD %
40	S-10	3	6	8	10	24	20	GRY BRN F SAND & SILT (cont)	Brown fine SAND and silt	85
45	S-11	2	6	12	15	24	24			Brown fine SAND and silt, trace clay, laminations
50	S-12	3	4	7	12	24	18	Gray fine SAND and silt, trace clay, laminations	Gray fine SAND and silt, trace clay, laminations	75
55	S-13	3	6	10	13	24	24			Gray fine SAND and silt, trace clay, laminations
60	S-14	4	35	17	25	24	8	BRN FC SAND & FC GRAVEL	Brown fine coarse SAND and fine coarse gravel, trace silt.	65
65									END OF BORING 62ft	60
70										55
75										50
80										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in						NOTES: CME 55 Truck Mounted Rig was used.			Sheet 2 of 2	
Earth: 62ft Rock: 0ft										
No. of Soil Samples: 9 No. of Core Runs: 0						SM-001-AETrev.9/00				

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: D. SCHMALTZ CHECKED BY: R. SALEH	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 39 COLONY STREET MERIDEN, CT 06451 	PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN: ANSONIA AND DERBY DRAWING TITLE: NOISE BARRIER WALL AND WALL 102 BORING LOGS 4	PROJECT NO. 36-179 DRAWING NO. S-25 SHEET NO. 05.26
-	-	-	-							
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REV.	DATE	REVISION DESCRIPTION			SHEET NO.	Plotted Date: 5/5/2014	Filename: ...\\SB_MSH_036_179_BOR4.dgn			

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-24			
Inspector: R. Beniwal		Town: Ansonia				Stat/Offset: 33+11/6.62 RT			
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905716.03			
Start Date: 12-20-13		Location: Route 8				Easting: 686711.83			
Finish Date: 12-20-13		Bridge No.:				Surface Elevation: 132.7			
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll			
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:			
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs Fall: 30 in ROPE				Boring Co: Associate Borings CO.			
Groundwater Observations: @Water at 30 feet									
SAMPLES						Generalized Strata Description	Material Description and Notes	Elevation (ft)	
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)				RQD %
0							5 in asphalt Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	130	
	S-1	3	6 4 3	24	6				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	125	
5	S-2	5	7 22 22	24	4				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	120	
10	S-3	8	9 11 30	24	6				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	115	
15	S-4	3	5 25 25	24	10				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	110	
20	S-5	25	45 60 4	18	4				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	105	
25	S-6	3	11 16 30	24	6				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles & boulders, fill	100	
30	S-7	40	50	24	6				
							Brown fine coarse SAND and fine coarse gravel, trace to little silt, occasional cobbles, fill	95	
35	S-8	6	13 14 20	24	12				
							Gray brown fine SAND, and to some silt, trace clay, laminations.		
40	S-9	6	7 6 9	24	14				
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 67ft Rock: 0ft				NOTES: CME 55 Truck Mounted Rig was used.				Sheet 1 of 2	
No. of Soil Samples: 15 No. of Core Runs: 0								SM-001-AETrev.0/00	

Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-14

Driller: Jaime Lloret		Connecticut DOT Boring Report				Hole No.: AB-24							
Inspector: R. Beniwal		Town: Ansonia				Stat./Offset: 33+11/6.62 RT							
Soil Engr: Applied Earth Tech.		Project No.: 36-176				Northing: 905716.03							
Start Date: 12-20-13		Location: Route 8				Easting: 686711.83							
Finish Date: 12-20-13		Bridge No.:				Surface Elevation: 132.7							
Project Description: Route 8 Ramp 18 North						Prime Engineer: Decalo & Doll							
Casing Size/Type: 3.25 in HA		Sampler Type/Size: SS 2.0 in				Core Barrel Type:							
Hammer Wt.: Fall:		Hammer Wt.: 140 lbs		Fall: 30 in		ROPE							
Boring Co: Associate Borings CO.													
Groundwater Observations: @Water at 30 feet													
SAMPLES						Generalized Strata Description	Material Description and Notes	Elevation (ft)					
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches			Pen. (in.)				Rec. (in.)	RQD %			
40	S-10	1	6	3	5	24	10		GRY BRN F SAND & SILT (cont)	Gray brown fine SAND, and to some silt, trace clay, laminations.	90		
45	S-11	2	4	3	7	24	18			Gray brown fine SAND, and to some silt, trace clay.	85		
50	S-12	3	4	6	10	24	24			Gray brown fine SAND, and to some silt, trace clay.	80		
55	S-13	2	3	6	8	24	18			Gray brown fine SAND, and to some silt, trace clay.	75		
60	S-14	5	4	11	14	24	14			Gray brown fine SAND, and to some silt, trace clay.	70		
65	S-15	15	30	27	24	24	10		BRN FC --- SAND & FC GRAVEL LTL SILT	Red brown fine coarse SAND and fine coarse gravel, little silt.	65		
70									END OF BORING 67ft			60	
75												55	
80													
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%													
Total Penetration in Earth: 67ft Rock: 0ft						NOTES: CME 55 Truck Mounted Rig was used.						Sheet 2 of 2	
No. of Soil Samples: 15 No. of Core Runs: 0												SM-001-AETrev.0/00	

Applied Earth Technologies, Inc., 571 Bee Street, Meriden, CT 06450, Tel: 203-634-9110 A-15

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/5/2014

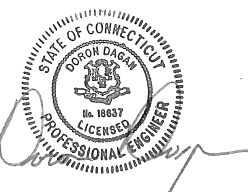
DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH



Filename: ...\\SB_MSH_036_179_BOR5.dgn

SIGNATURE/
BLOCK:

DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451



PROJECT TITLE:

**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

TOWN:

ANSONIA AND DERBY

DRAWING TITLE:

**NOISE BARRIER WALL AND
WALL 102 BORING LOGS 5**

PROJECT NO.

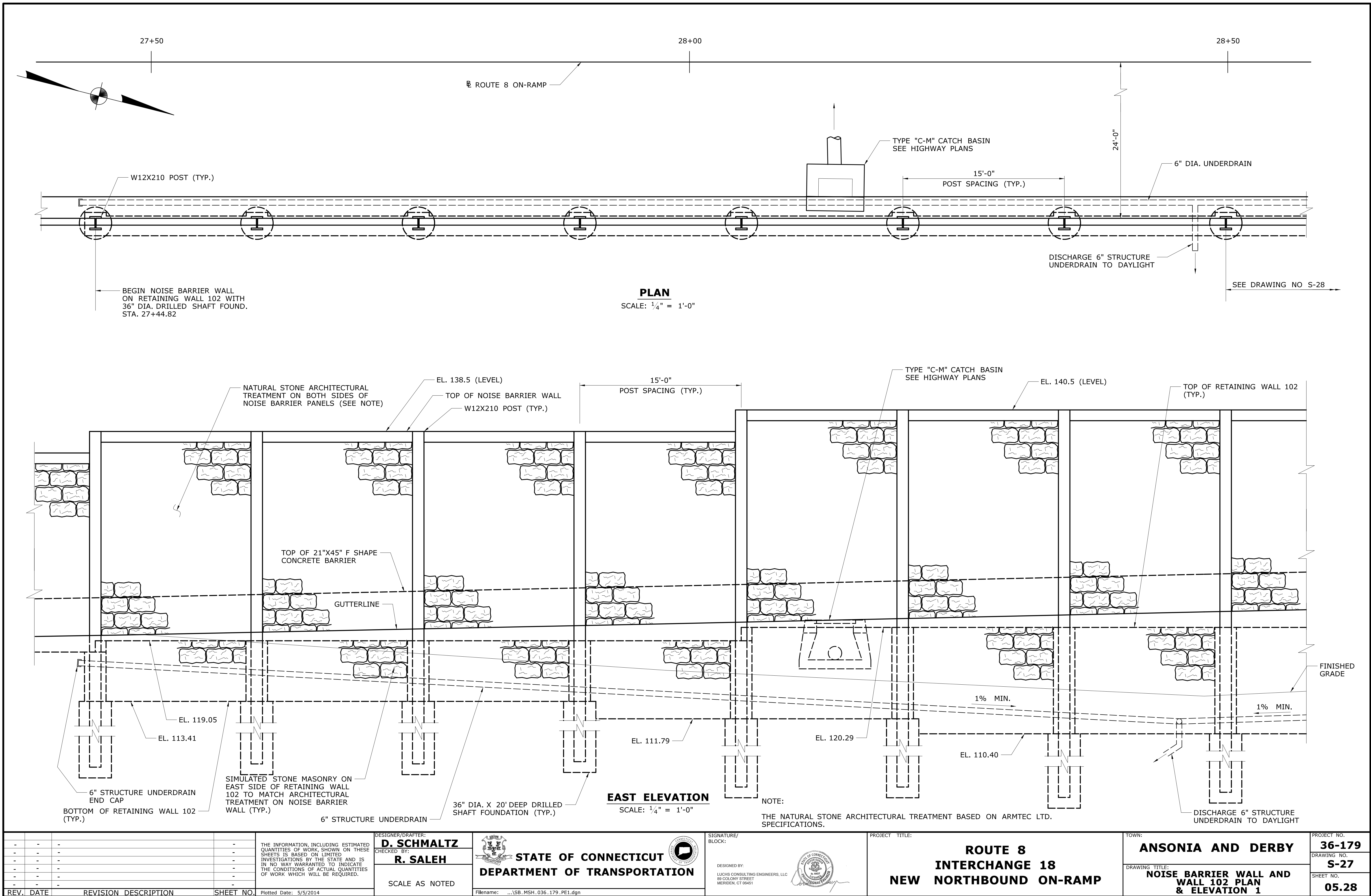
36-179

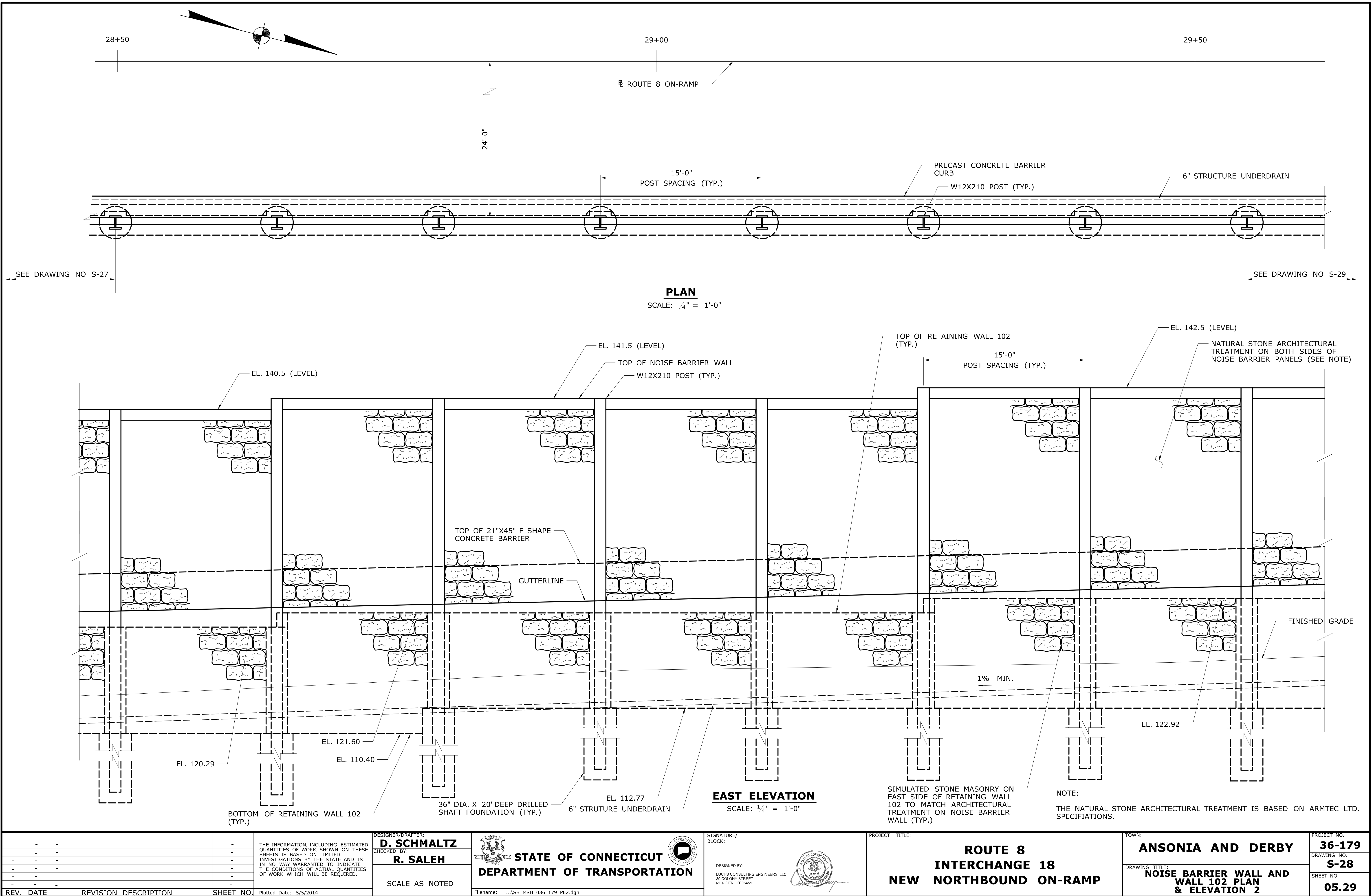
DRAWING NO.

S-26

SHEET NO.

05.27



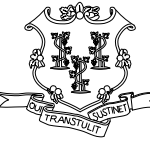


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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/5/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_036_179_PE2.dgn

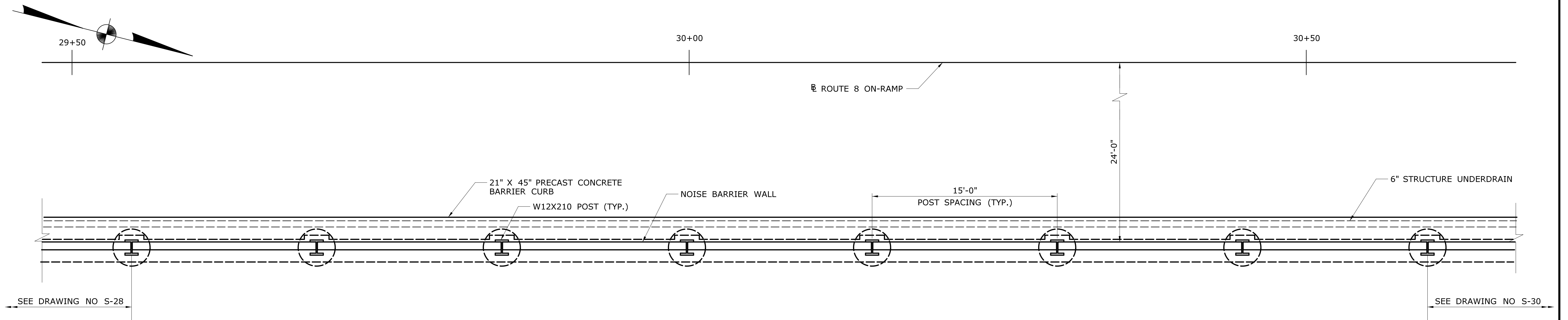
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DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
39 COLONY STREET
MERIDEN, CT 06451

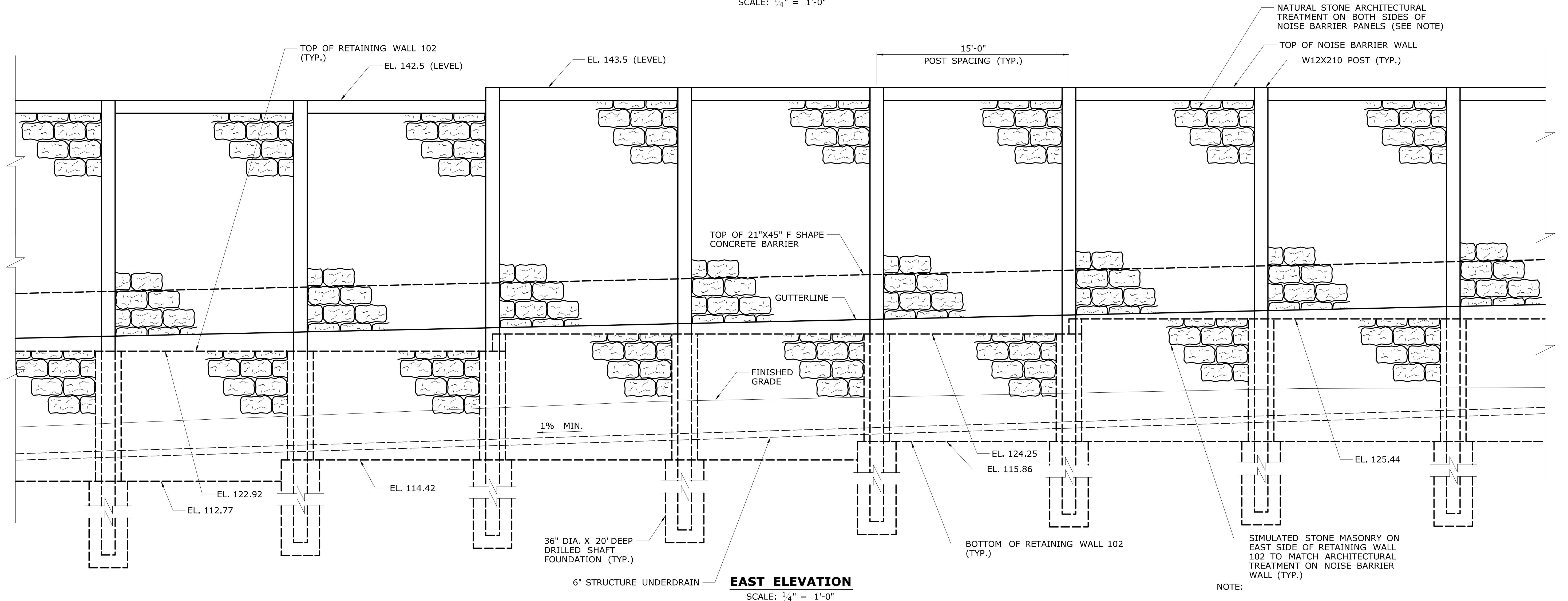
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ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN:
ANSONIA AND DERBY
DRAWING TITLE:
NOISE BARRIER WALL AND
WALL 102 PLAN
& ELEVATION 2

PROJECT NO.
36-179
DRAWING NO.
S-28
SHEET NO.
05.29

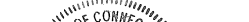



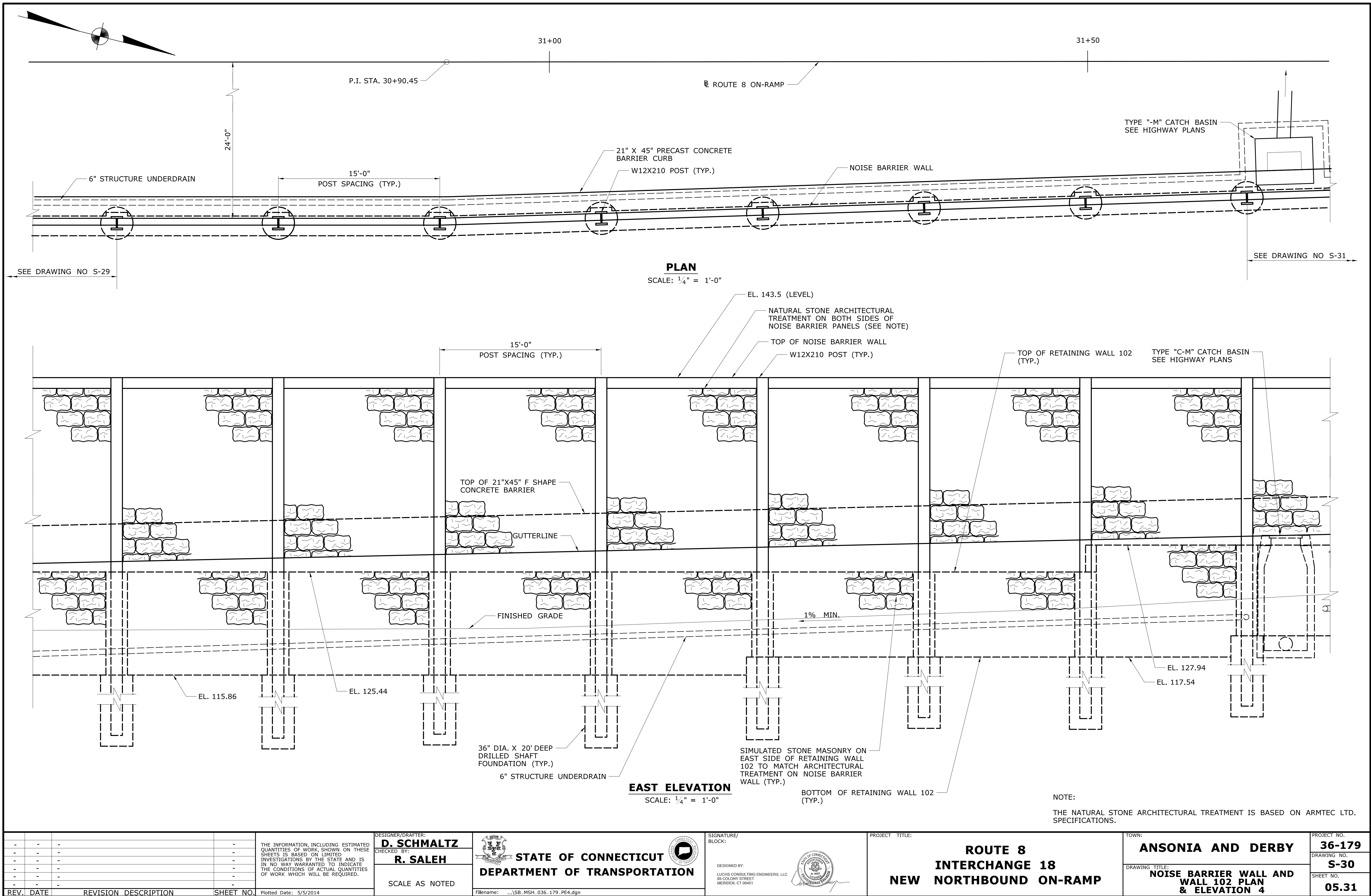
PLAN
SCALE: 1/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
THE NATURAL STONE ARCHITECTURAL TREATMENT IS BASED ON ARMTEC LTD. SPECIFICATIONS.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: D. SCHMALTZ CHECKED BY: R. SALEH SCALE AS NOTED		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\SB_MSH_036_179_P03.dgn		SIGNATURE/ BLOCK: DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 89 COLONY STREET MERIDEN, CT 06451 		PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP		TOWN: ANSONIA AND DERBY DRAWING TITLE: NOISE BARRIER WALL AND WALL 102 PLAN & ELEVATION 3		PROJECT NO. 36-179 DRAWING NO. S-29 SHEET NO. 05.30	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/5/2014												

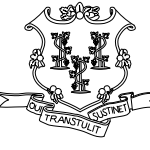


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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.


Plotted Date: 5/5/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH
SCALE AS NOTED



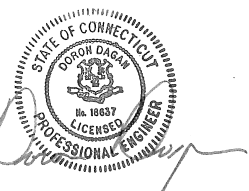
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MSH_036_179_PE4.dgn



SIGNATURE/
BLOCK:

DESIGNED BY:
LUCAS CONSULTING ENGINEERS, LLC
89 COLONY STREET
MERIDEN, CT 06451



PROJECT TITLE:

**ROUTE 8
INTERCHANGE 18
NEW NORTHBOUND ON-RAMP**

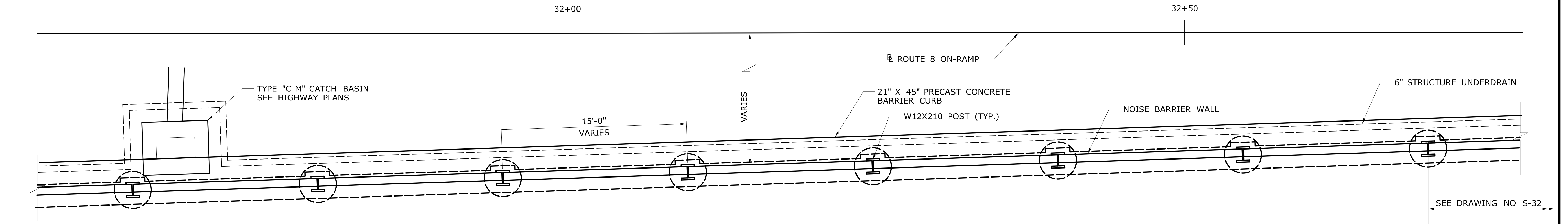
TOWN:
ANSONIA AND DERBY

DRAWING TITLE:
**NOISE BARRIER WALL AND
WALL 102 PLAN
& ELEVATION 4**

PROJECT NO.
36-179

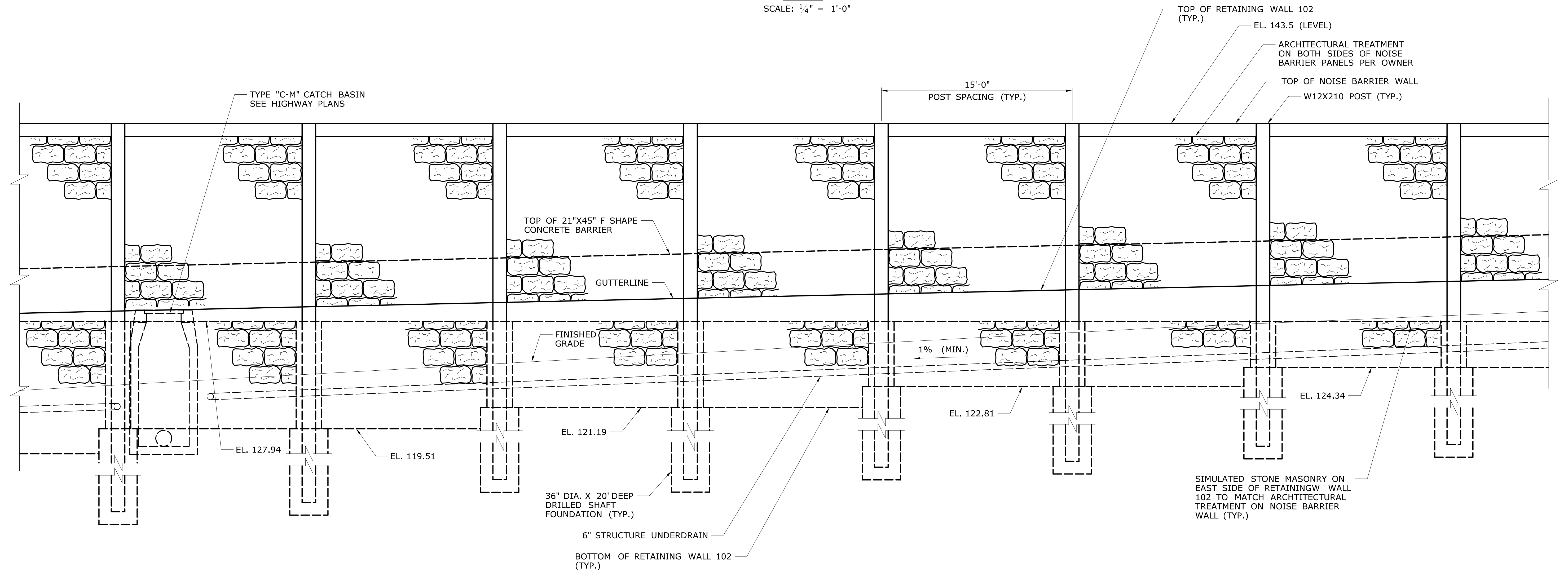
DRAWING NO.
S-30

SHEET NO.
05.31



PLAN

SCALE: 1/4" = 1'-0"





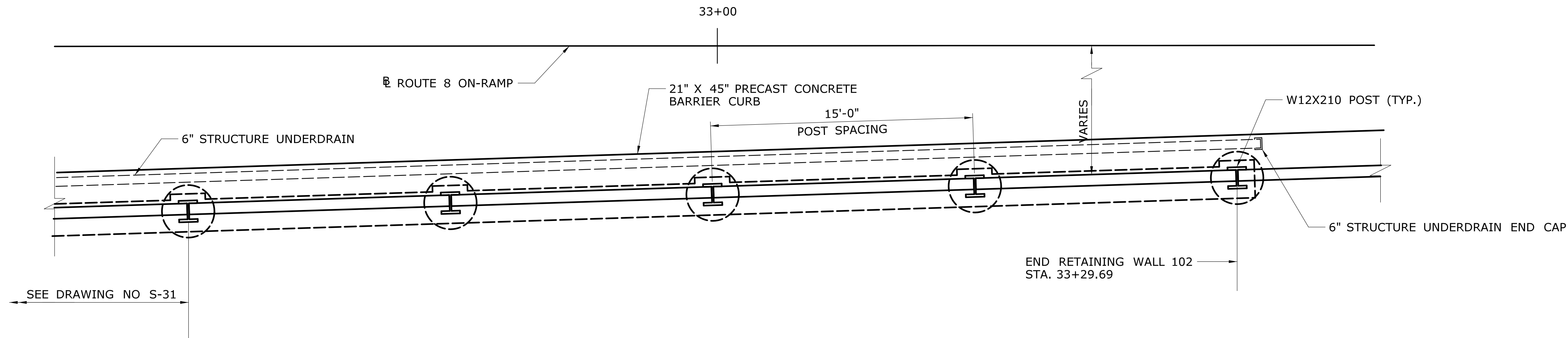
EAST ELEVATION

SCALE: 1/4" = 1'-0"

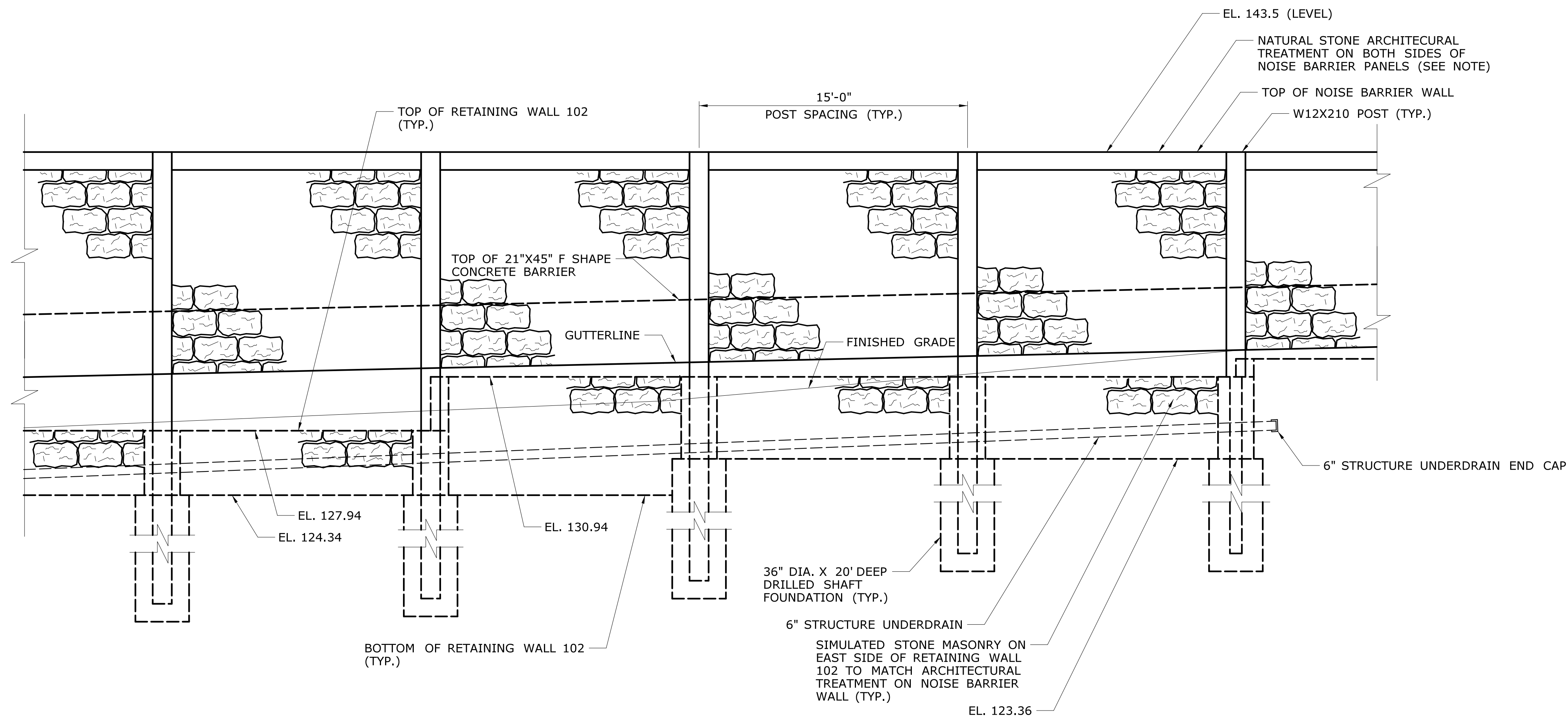
NOTE:

THE NATURAL STONE ARCHITECTURAL TREATMENT BASED ON ARMTEC LTD. SPECIFICATIONS.

					DESIGNER/DRAFTER: D. SCHMALTZ		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: DESIGNED BY: LUCAS CONSULTING ENGINEERS, LLC 89 COLONY STREET MERIDEN, CT 06451 	PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN: ANSONIA AND DERBY	PROJECT NO. 36-179
			CHECKED BY: R. SALEH		DRAWING NO. S-31						
			SCALE AS NOTED		SHEET NO. 05.32						
			Filename: ...\\SB_MSH_036_179_P05.dgn								
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			Plotted Date: 5/5/2014								
REV.	DATE	REVISION DESCRIPTION	SHEET NO.								
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PLAN
SCALE: $\frac{1}{4}$ " = 1'-0"





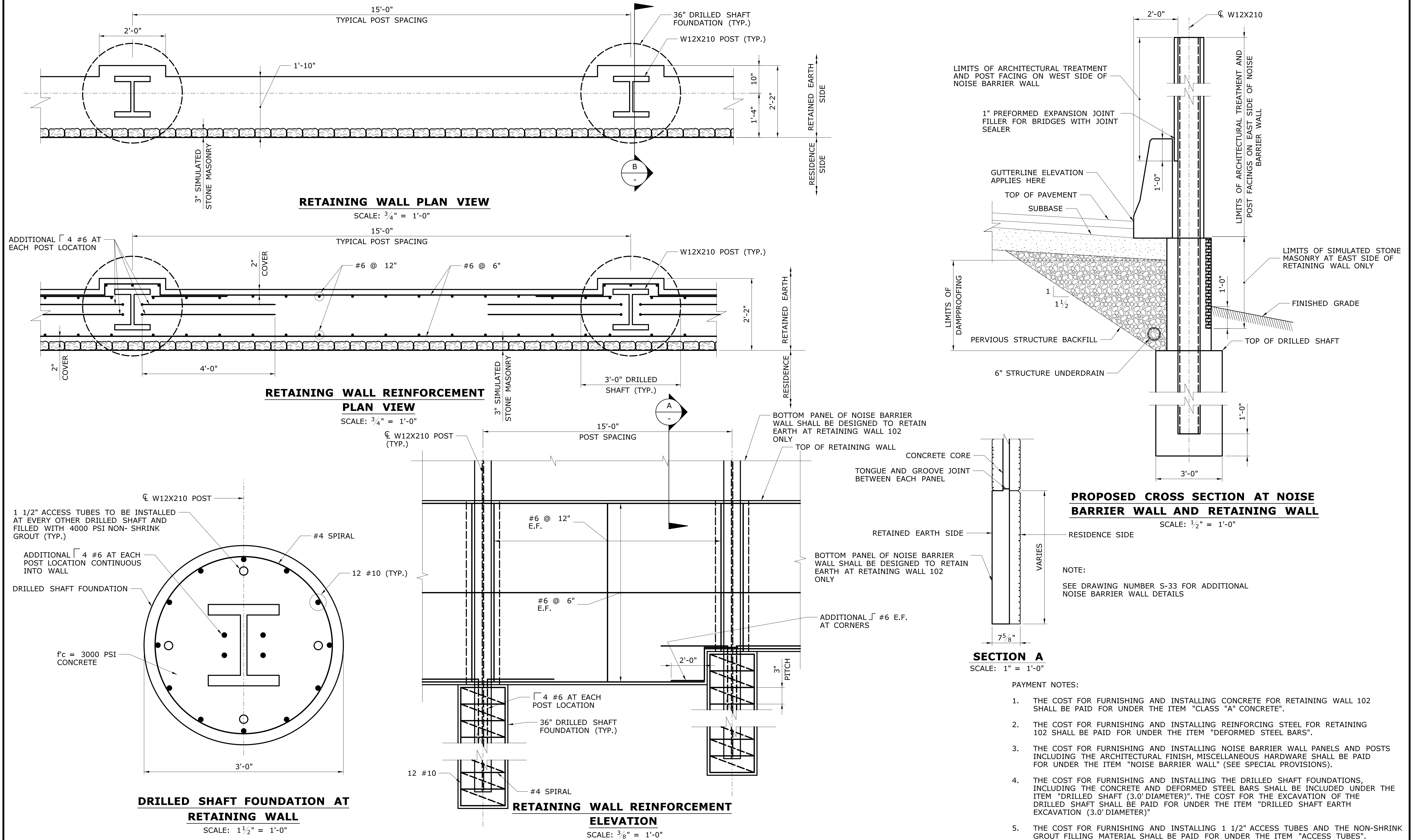
EAST ELEVATION
SCALE: $\frac{1}{4}$ " = 1'-0"

NOTE:

THE NATURAL STONE ARCHITECTURAL TREATMENT IS BASED ON ARMTEC LTD. SPECIFICATIONS

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-	-	-	-	CHECKED BY: R. SALEH		DRAWING NO. S-33						
-	-	-	-	SCALE AS NOTED								SHEET NO. 05.34
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-	-	-	-									
REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date: 6/11/2014	Filename: ...\\SB-MSH-036-179-SEC.dgn			DRAWING TITLE: NOISE BARRIER WALL & FOUNDATION DETAILS			



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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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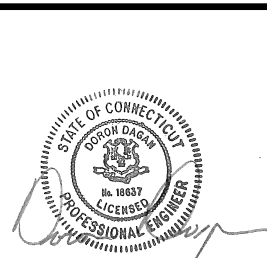
Plotted Date: 6/11/2014

DESIGNER/DRAFTER:
D. SCHMALTZ
CHECKED BY:
R. SALEH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_036_179 - REIN.dgn

SIGNATURE/
BLOCK:

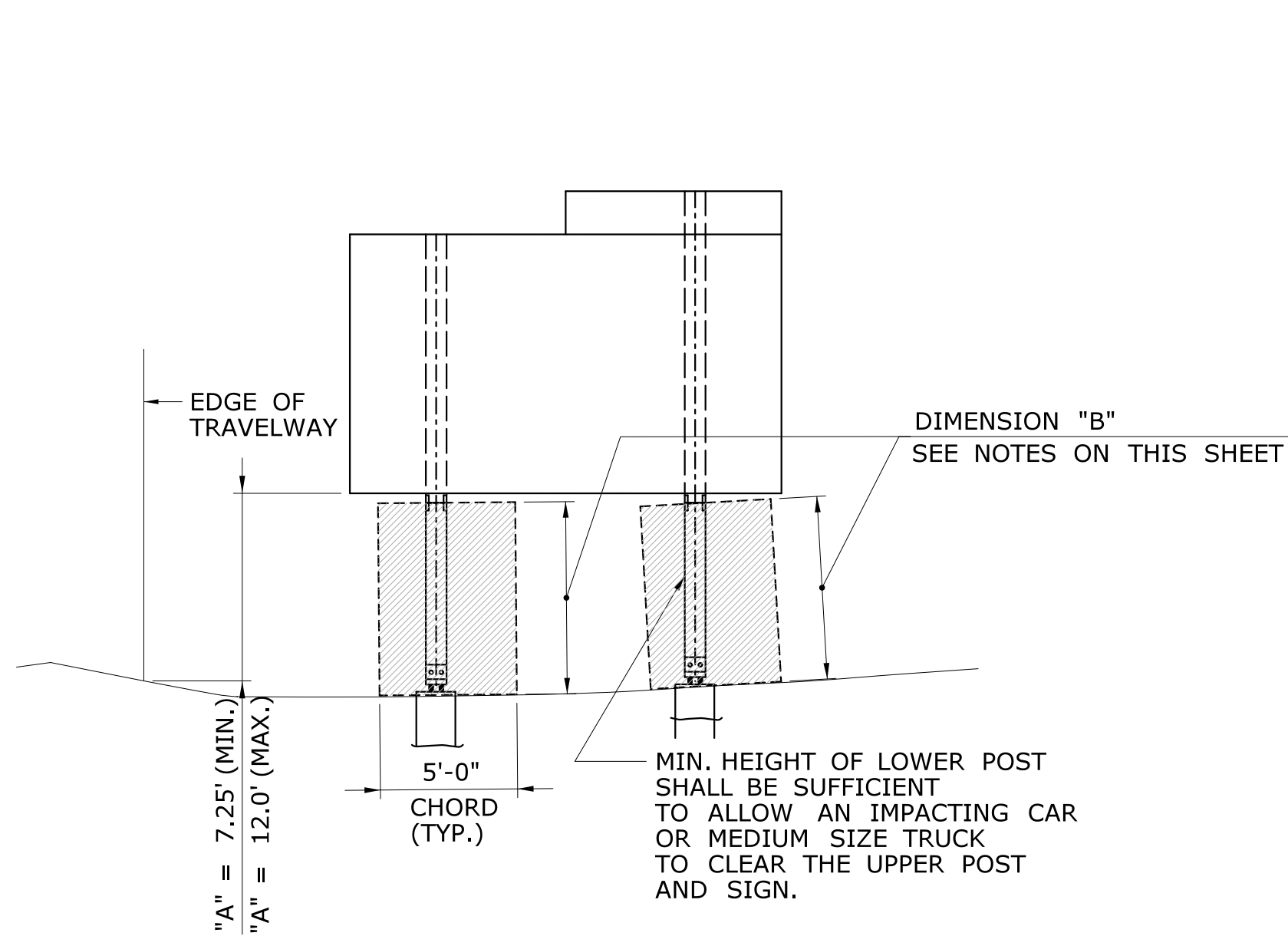
DESIGNED BY:
LUCHS CONSULTING ENGINEERS, LLC
39 COLONY STREET
MERIDEN, CT 06451



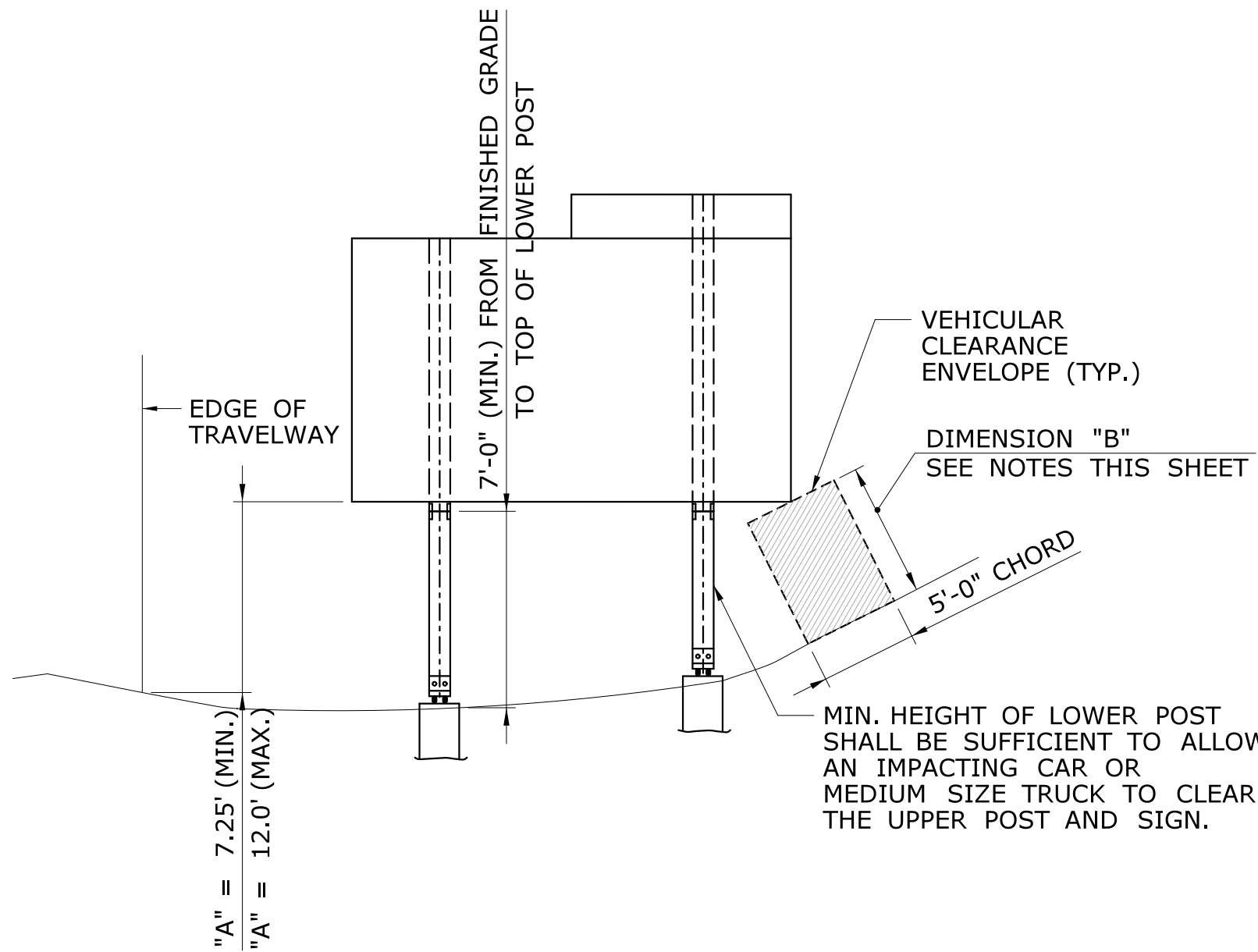
PROJECT TITLE:
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INTERCHANGE 18
NEW NORTHBOUND ON-RAMP

TOWN:
ANSONIA AND DERBY
DRAWING TITLE:
WALL 102 & FOUNDATION DETAILS

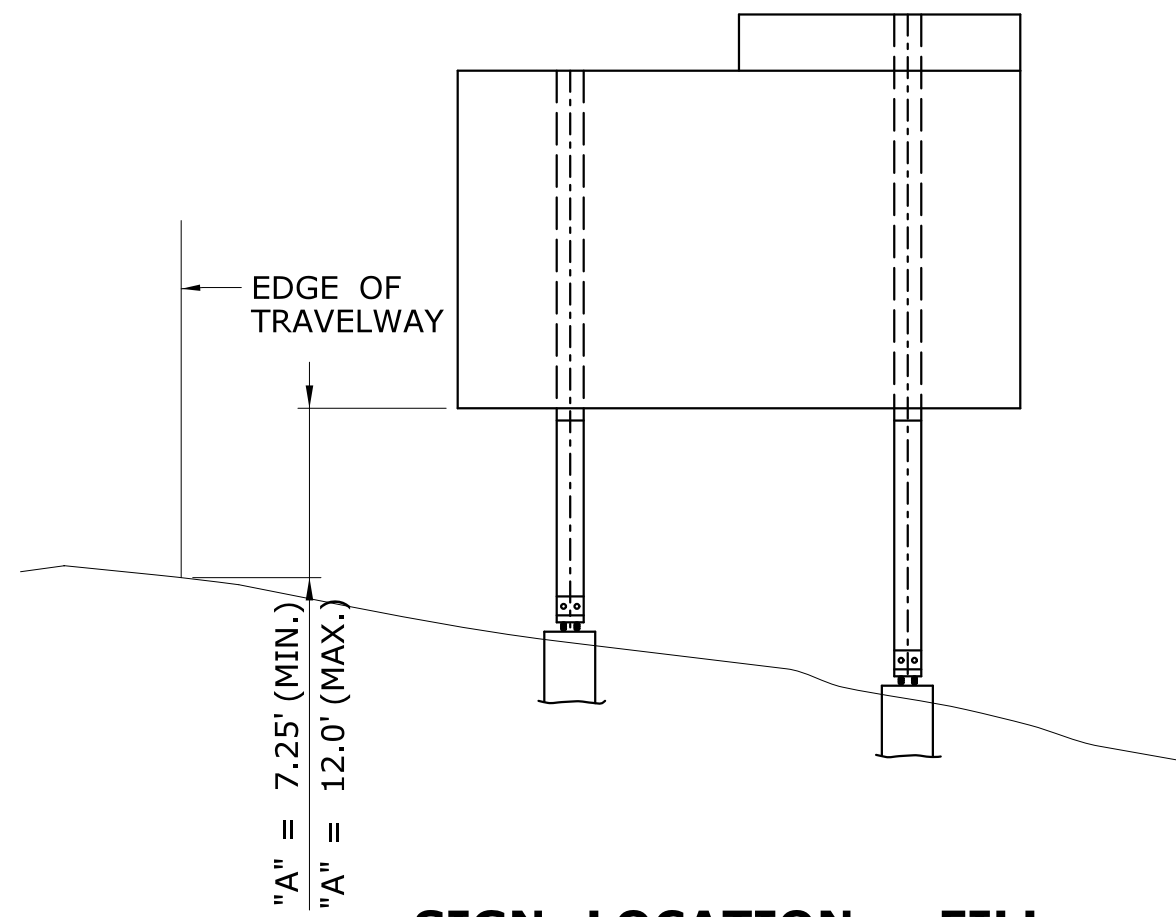
PROJECT NO.
36-179
DRAWING NO.
S-34
SHEET NO.
05.35



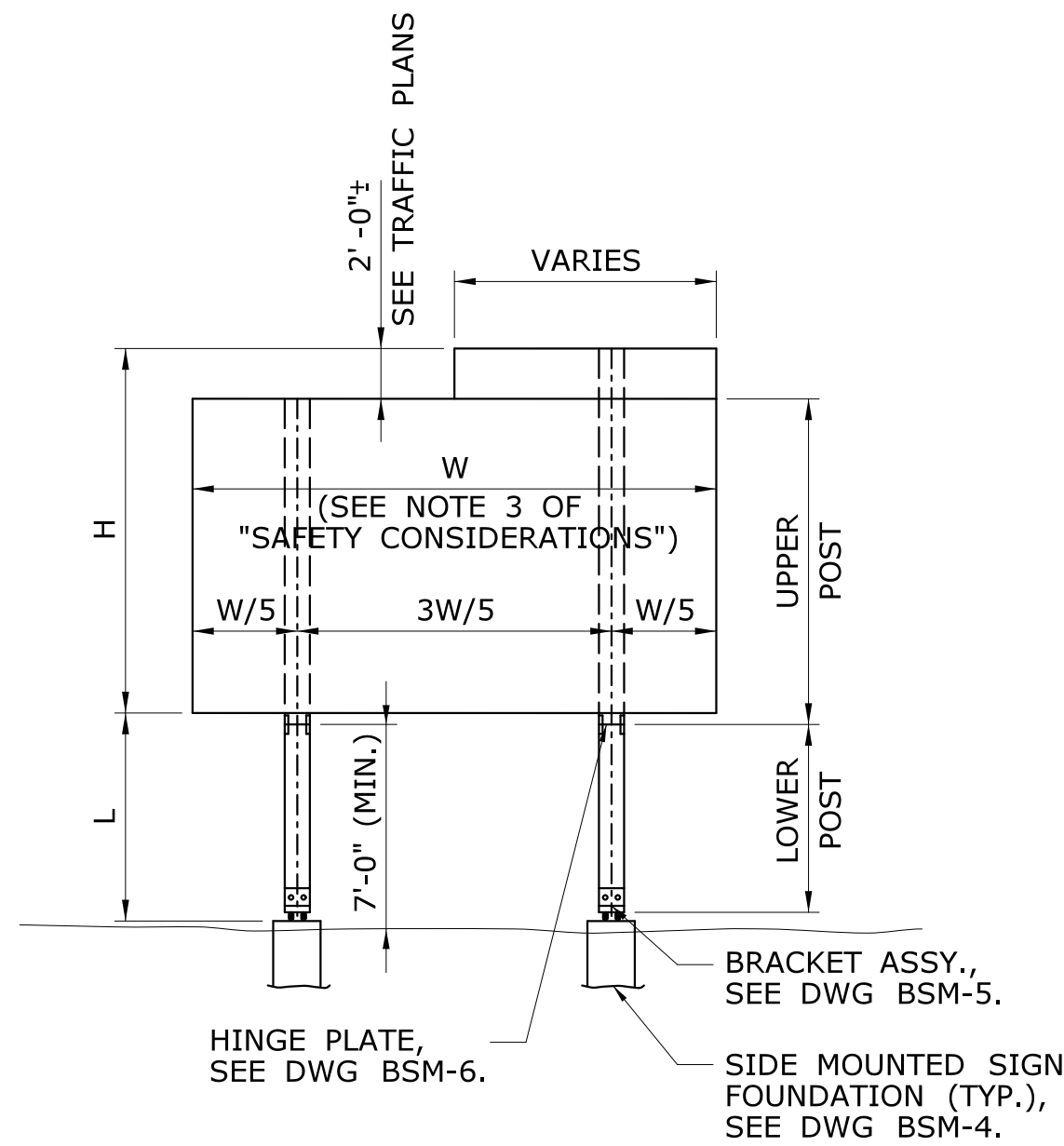
LEVEL TO SHALLOW SLOPES



STEEPER SLOPES



SIGN LOCATION - FILL



TYPICAL POST MOUNTED SIGN

SIGN LOCATION - CUT

SAFETY CONSIDERATIONS

NOTES FOR DETERMINING DIMENSION "B"

- DIMENSION "B" IS THE SMALLER OF:
 - THE CLEAR DISTANCE BETWEEN THE BOTTOM OF SIGN AND THE FINISHED GRADE.
 - THE CLEAR DISTANCE BETWEEN THE BOTTOM OF UPPER POST AND THE FINISHED GRADE.
- DIMENSION "B" SHALL TYPICALLY BE A MINIMUM OF 7'-0" TO CLEAR AN IMPACTING CAR OR MEDIUM SIZE TRUCK.
- WHEN DIMENSION "A" WOULD EXCEED 12'-0", CONSIDERATION MAY BE GIVEN TO REDUCING DIMENSION "B" IN ACCORDANCE WITH PROVISIONS OF NOTE 4.
- DIMENSION "B" MAY BE LESS THAN 7'-0":
 - IF THE POST IS OUT OF THE CLEAR ZONE.
 - IF THE POST IS WITHIN THE CLEAR ZONE BUT SHIELDED BY AN APPROPRIATE BARRIER SYSTEM.
 - IN NO CASE SHALL DIMENSION "B" BE LESS THAN 2'-6".
- IF FIELD CONDITIONS EXCEED THESE REQUIREMENTS, CONTACT THE ENGINEER FOR DIRECTION.

- THE HINGE BETWEEN THE UPPER AND LOWER POSTS SHALL BE AT LEAST 7 FT. ABOVE THE GROUND.
- NO SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGES.
- THE POST SPACING SHALL BE 3/5 W EXCEPT AS NOTED BELOW:

UNIT WEIGHT OF POST

POST SPACING REQUIREMENTS

LESS THAN 18 PLF	NO RESTRICTIONS ON POST SPACING **
FROM 18 PLF TO 45 PLF	PROVIDE AT LEAST 7 FT. CLEAR DISTANCE BETWEEN POSTS ***
EXCEEDS 45 PLF	RELOCATE SIGN OUTSIDE OF CLEAR ZONE OR SHIELD SIGN FROM VEHICULAR IMPACT AS DIRECTED BY THE ENGINEER

- ** IF THE TOTAL COMBINED WEIGHT OF ONE LOWER POST AND TWO BRACKETS EXCEEDS 600 LBS OR THE COMBINED WEIGHT OF TWO POSTS AND FOUR BRACKETS LOCATED WITHIN A CLEAR DISTANCE OF 7 FT OF EACH OTHER EXCEEDS 600 LBS, THE SIGN SHALL BE RELOCATED OUTSIDE OF THE CLEAR ZONE OR SHALL BE PROPERLY SHIELDED FROM VEHICULAR IMPACT AS DIRECTED BY THE ENGINEER. SEE "TABLE 1 - BRACKET DATA" ON BSM-5 FOR BRACKET WEIGHT.
- *** IF THE REQUIRED CLEAR DISTANCE CANNOT BE ATTAINED, THE ENGINEER MAY DIRECT THAT THE SIGN BE RELOCATED OUTSIDE THE CLEAR ZONE OR THAT IT BE PROPERLY SHIELDED FROM VEHICULAR IMPACT.

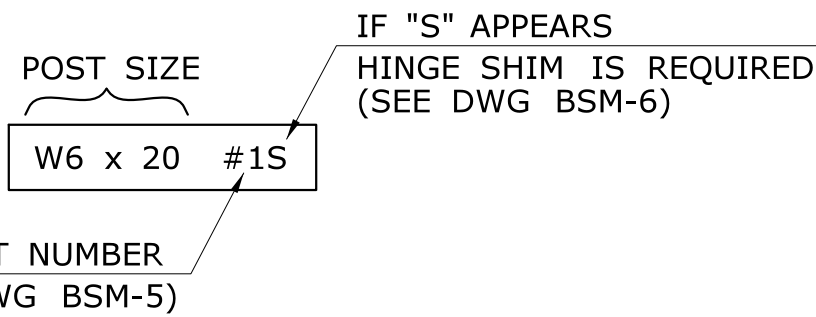
SELECTING A POST SIZE, BRACKET NUMBER, AND HINGE TYPE

- DETERMINE THE REQUIRED SIGN DIMENSIONS AND POST HEIGHTS (SEE "TYPICAL POST MOUNTED SIGN" DETAIL, THIS SHEET).

W = SIGN WIDTH (HORIZONTAL DIMENSION)
H = SIGN HEIGHT (VERTICAL DIMENSION) (ADD CROWN HEIGHT WHEN APPLICABLE)
L = POST HEIGHT (THE DISTANCE BETWEEN THE TOP OF THE FOUNDATION AND THE BOTTOM OF THE SIGN MEASURED AT THE TALLER POST)
- ENTER "POST SELECTION TABLE 1 AND 2" ON DWG BSM-2 AND BSM-3 WITH THE DESIRED VALUES OF W, H, AND L. ROUND UP TO THE NEAREST VALUES IN THE TABLE. READ THE CORRESPONDING POST SIZE AND BRACKET NUMBER. REFER TO DWG BSM-5 FOR BRACKET TYPE AND BSM-6 FOR TYPICAL HINGE REQUIREMENTS.

EXAMPLE: W = 8', L = 10', H = 14'

ENTER "POST SELECTION TABLE 1" ON DWG BSM-2 SINCE TABLE 1 IS APPLICABLE FOR SIGN WIDTH ≤ 15'. LOCATE THE FOLLOWING CELL:



- IF NO POST SIZE IS SHOWN FOR THE COMBINATION OF DIMENSIONS W, L, AND H, THE ENGINEER WILL EITHER PROVIDE A DESIGN FOR THE POST AND FOUNDATION OR RELOCATE THE SIGN.

NOTES ON TOTAL HEIGHT OF SIGN POSTS

- UPPER SIGN POSTS SHALL EXTEND TO THE TOP OF FULL WIDTH SIGN PANEL OR THE TOP OF CROWN, WHICHEVER IS HIGHER.
- FOR SIGN OR CROWN PANEL RETROFIT, THE EXISTING SIGN POSTS SHALL BE REPLACED WITH NEW POSTS OR EXTENDED WITH ADDITIONAL SECTIONS USING HINGE ASSEMBLIES. REFER TO TRAFFIC TYPICAL SHEETS "EXTRUDED SIGN PANEL - RETROFIT DETAIL".

BREAKAWAY SIGN SUPPORT TYPICAL SHEETS ARE IN US CUSTOMARY UNITS

FOR METRIC PROJECTS:
1. DETERMINE US CUSTOMARY POST SIZE FROM THE POST SELECTION TABLE.
2. CALCULATE THE WEIGHT OF POSTS IN US CUSTOMARY UNITS (CWT) THEN USE THE FOLLOWING CONVERSION FACTOR TO CONVERT CWT TO KILOGRAMS.

1 CWT = 45.36 KG



EXAMPLE: 120 CWT x 45.36 KG/CWT = 5443 KG

TABLE OF CONTENT	
DWG. NO.	DESCRIPTION
BSM-1	GENERAL NOTES
BSM-2	POST SELECTION TABLE 1 (W ≤ 15 FT.)
BSM-3	POST SELECTION TABLE 2 (W > 15 FT.)
BSM-4	FOUNDATION DETAILS
BSM-5	BRACKET DETAILS
BSM-6	HINGE DETAILS

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POST SELECTION TABLE 1

W	L	H (Sign Height + Crown Height)																			
		4 ft	5 ft	6 ft	7 ft	8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft	21 ft	22 ft	
8 ft	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1S	W6 x 16 #1S	W8 x 18 #2S	W8 x 21 #1S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1S	W10 x 26 #1S	
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 21 #1S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1S	W10 x 30 #1S	
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1S	W12 x 30 #1	
	10 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1S	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	-	-	
	11 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	-	-	-	-	-	-	-	
	12 ft	W6 x 9 #2	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1S	-	-	-	-	-	-	-	
	13 ft	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	
	14 ft	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	
	15 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	-	-	-	-	-	-	-	-	-	-	-	-	
16 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9 ft	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W8 x 10 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W6 x 15 #1S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W10 x 26 #2S	W12 x 30 #2S	
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W8 x 10 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W8 x 18 #2	W8 x 21 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1S	W12 x 30 #2	W12 x 30 #2S	
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1S	W12 x 30 #2	-	
	10 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1S	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	
	11 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	-	-	-	-	-	-	-	-	
	12 ft	W6 x 9 #2	W6 x 12 #1	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	-	-	-	-	-	-	-	
	13 ft	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	
	14 ft	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	
	15 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	
16 ft	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
10 ft	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W8 x 18 #2S	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W10 x 26 #2S	W12 x 30 #2S	W14 x 30 #2S	
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1S	W12 x 30 #2	-	
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1S	W12 x 30 #2	-	
	10 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	
	11 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1S	W8 x 21 #1S	-	-	-	-	-	-	
	12 ft	W6 x 12 #2	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W10 x 22 #1	-	-	-	-	-	-	-	-	
	13 ft	W6 x 12 #1	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	-	-	-	-	-	-	-	-	
	14 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	
	15 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	
16 ft	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11 ft	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W8 x 10 #3	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #1S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 26 #2S	W14 x 30 #2S	W16 x 36 #2S	
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W8 x 18 #2S	W8 x 21 #2S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 30 #2	W14 x 30 #2	-	
	9 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1S	W12 x 30 #2	-	-	
	10 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	
	11 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 20 #1	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	-	
	12 ft	W6 x 12 #2	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	-	-	-	-	-	-	-	-	-	
	13 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	
	14 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-	
	15 ft	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16 ft	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12 ft	7 ft	W6 x 9 #3	W6 x 9 #3	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2S	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 26 #2S	W14 x 30 #2S	W18 x 35 #2	W18 x 40 #2	
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #2	-	
	9 ft	W6 x 9 #2	W8 x 10 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W18 x 40 #2	-	
	10 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 18 #1	W6 x 20 #1S	W8 x 21 #1S	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	-	-	-	-	
	11 ft	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	-	-	-	-	-	-	
	12 ft	W6 x 12 #2	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	
	13 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-	
	14 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W6 x 20 #1	-	-	-	-	-	-	-	-	-	-	-	
	15 ft	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16 ft	W6 x 15 #1	W6 x 15 #1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13 ft	7 ft	W6 x 9 #3	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2S	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 40 #3	W21 x 44 #3	
	8 ft	W6 x 9 #2	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1S	W8 x 18 #2	W8 x 21 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 30 #2	W14 x 34 #2	W18 x 40 #3	W21 x 44 #3	W21 x 44 #3	
	9 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W18 x 40 #2	W21 x 44 #2	-	
	10 ft	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	-	
	11 ft	W6 x 12 #2	W6 x 12 #2	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W6 x 20 #1S	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W10 x 30 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #2	-	-	
	12 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	
	13 ft	W6 x 12 #1	W6 x 15 #1	W6 x 15 #1	W6 x 15 #1	W6 x 16 #1	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W							

			-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: BKC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	 DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 80 COLONY STREET MERIDEN, CT 06461	PROJECT TITLE:	TOWN:	PROJECT NO.	
-	-	-	-		CHECKED BY: JRH					ROUTE 8	ANSONIA AND DERBY	36-179
-	-	-	-							INTERCHANGE 18		DRAWING NO.
-	-	-	-							NEW NORTHBOUND ON-RAMP	BREAKAWAY SIGN SUPPORTS	BSM-2
-	-	-	-		SCALE AS NOTED						POST SELECTION TABLE 1	SHEET NO.
-	-	-	-									05.37
REV	DATE	REVISION DESCRIPTION	CHEFET NO	Sheet Date: 1/22/2014		Filename: \\C:\Programs\Connecticut\BKM2\PostSelectionTable_1.dwg						

POST SELECTION TABLE 2

W	L	H (Sign Height + Crown Height)																			
		4 ft	5 ft	6 ft	7 ft	8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft	21 ft	22 ft	
16 ft	7 ft	-	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2S	W12 x 26 #2S	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-	
	8 ft	-	W8 x 10 #3	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2S	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-		
	9 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 40 #2	W21 x 44 #3	-	-		
	10 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	-		
	11 ft	-	W6 x 15 #2	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	-			
	12 ft	-	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-			
	13 ft	-	W6 x 15 #1	W6 x 16 #1	W6 x 20 #1	W6 x 20 #1	W10 x 22 #2	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-			
	14 ft	-	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #2	W18 x 40 #2	-	-	-	-	-			
	15 ft	-	W8 x 18 #1	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	-	-	-	-	-			
16 ft	-	W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #1	-	-	-	-	-	-	-	-				
17 ft	7 ft	-	W6 x 9 #2	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2S	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-		
	8 ft	-	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 40 #3	W21 x 44 #3	-	-		
	9 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W6 x 20 #1S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 40 #2	-	-	-			
	10 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	-	-			
	11 ft	-	W6 x 15 #2	W6 x 15 #1	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W10 x 30 #2	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	-	-			
	12 ft	-	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 30 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-			
	13 ft	-	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-	-			
	14 ft	-	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-			
	15 ft	-	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	-	-	-	-	-	-			
16 ft	-	W6 x 20 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W14 x 34 #1	-	-	-	-	-	-	-	-	-				
18 ft	7 ft	-	W8 x 10 #3	W6 x 12 #2	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2S	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-		
	8 ft	-	W6 x 12 #2	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-			
	9 ft	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-			
	10 ft	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 21 #2	W8 x 21 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #2	W18 x 40 #2	W21 x 44 #3	-	-			
	11 ft	-	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	-	-			
	12 ft	-	W6 x 15 #1	W6 x 15 #1	W8 x 18 #2	W8 x 21 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-			
	13 ft	-	W6 x 15 #1	W8 x 18 #1	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #1	W10 x 26 #1	W12 x 30 #1	W14 x 34 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-			
	14 ft	-	W6 x 16 #1	W6 x 20 #1	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W10 x 30 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-	-			
	15 ft	-	W8 x 18 #1	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	-	-	-	-	-	-	-			
16 ft	-	W6 x 20 #1	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	-	-	-	-	-	-	-				
19 ft	7 ft	-	-	W6 x 12 #2	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-			
	8 ft	-	-	W12 x 14 #3	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2S	W8 x 18 #2	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	W21 x 44 #3	-	-			
	9 ft	-	-	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-				
	10 ft	-	-	W6 x 15 #2	W6 x 15 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 40 #3	W21 x 44 #3	-	-				
	11 ft	-	-	W6 x 15 #1	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W16 x 36 #2	W21 x 44 #3	-	-	-				
	12 ft	-	-	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 26 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-				
	13 ft	-	-	W8 x 18 #1	W6 x 20 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-	-				
	14 ft	-	-	W6 x 20 #1	W8 x 20 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W14 x 34 #2	W16 x 36 #2	-	-	-	-	-	-	-				
	15 ft	-	-	W6 x 20 #1	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	-	-	-	-	-	-				
16 ft	-	-	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	-	-	-	-	-	-	-	-	-	-				
20 ft	7 ft	-	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2S	W8 x 18 #2S	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W12 x 26 #2	W14 x 30 #3	W16 x 31 #3	W18 x 35 #3	W21 x 44 #3	-	-			
	8 ft	-	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-				
	9 ft	-	-	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 34 #2	W18 x 35 #3	W21 x 44 #3	-	-	-				
	10 ft	-	-	W6 x 15 #2	W6 x 16 #1	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	W21 x 44 #3	-	-	-				
	11 ft	-	-	W6 x 15 #1	W8 x 18 #2	W10 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W18 x 35 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-				
	12 ft	-	-	W8 x 18 #2	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W14 x 30 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-				
	13 ft	-	-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 30 #1	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #2	-	-	-	-	-				
	14 ft	-	-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	W18 x 40 #2	-	-	-	-	-	-	-				
	15 ft	-	-	W6 x 20 #1	W10 x 26 #1	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	-	-	-	-	-	-	-				
16 ft	-	-	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	-	-	-	-	-	-	-					
21 ft	7 ft	-	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W6 x 16 #2S	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W16 x 31 #3	W18 x 35 #3	W21 x 44 #3	-	-				
	8 ft	-	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2S	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-				
	9 ft	-	-	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-	-				
	10 ft	-	-	W6 x 15 #2	W8 x 18 #2	W6 x 20 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-	-	-				
	11 ft	-	-	W6 x 15 #1	W8 x 18 #2	W10 x 21 #2	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W12 x 30 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-				
	12 ft	-	-	W8 x 18 #2	W6 x 20 #1	W10 x 22 #2	W10 x 26 #2	W10 x 26 #2	W14 x 30 #2	W16 x 36 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-				
	13 ft	-	-	W6 x 20 #1	W8 x 21 #1	W10 x 26 #2	W10 x 26 #2	W10 x 30 #1	W14 x 34 #2	W12 x 30 #2	W18 x 40 #2	W21 x 44 #3	-	-	-	-	-				
	14 ft	-	-	W6 x 20 #1	W10 x 26 #2	W10 x 26 #1	W10 x 30 #1	W14 x 34 #2	W16 x 36 #2	-	-	-	-	-	-	-	-				
	15 ft	-	-	W8 x 21 #1	W10 x 26 #1	W10 x 26 #1	W12 x 30 #2	W16 x 36 #2	-	-	-	-	-	-	-	-	-				
16 ft	-	-	W8 x 24 #1	W10 x 26 #1	W10 x 30 #1	W12 x 30 #1	W16 x 36 #2	-	-	-	-	-	-	-	-	-					
22 ft	7 ft	-	-	W6 x 12 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 18 #2S	W10 x 22 #2	W10 x 22 #2	W12 x 26 #3	W16 x 26 #3	W16 x 31 #3	W18 x 35 #3	W21 x 44 #3	-	-				
	8 ft	-	-	W6 x 15 #2	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W10 x 22 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W18 x 35 #3	W21 x 44 #3	-	-				
	9 ft	-	-	W6 x 15 #2	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	-	-				
	10 ft	-	-	W6 x 15 #2	W8 x 18 #2	W8 x 21 #2	W10 x 22 #2	W10 x 26 #2	W12 x 26 #2	W14 x 30 #2	W18 x 35 #3	W21 x 44 #3	-	-	-	-	-				
	11 ft	-	-	W6 x 16 #1	W8 x 20 #1	W10 x 26 #1	W10 x 26 #2	W10 x 26 #2	W12 x 26 #2	W1											

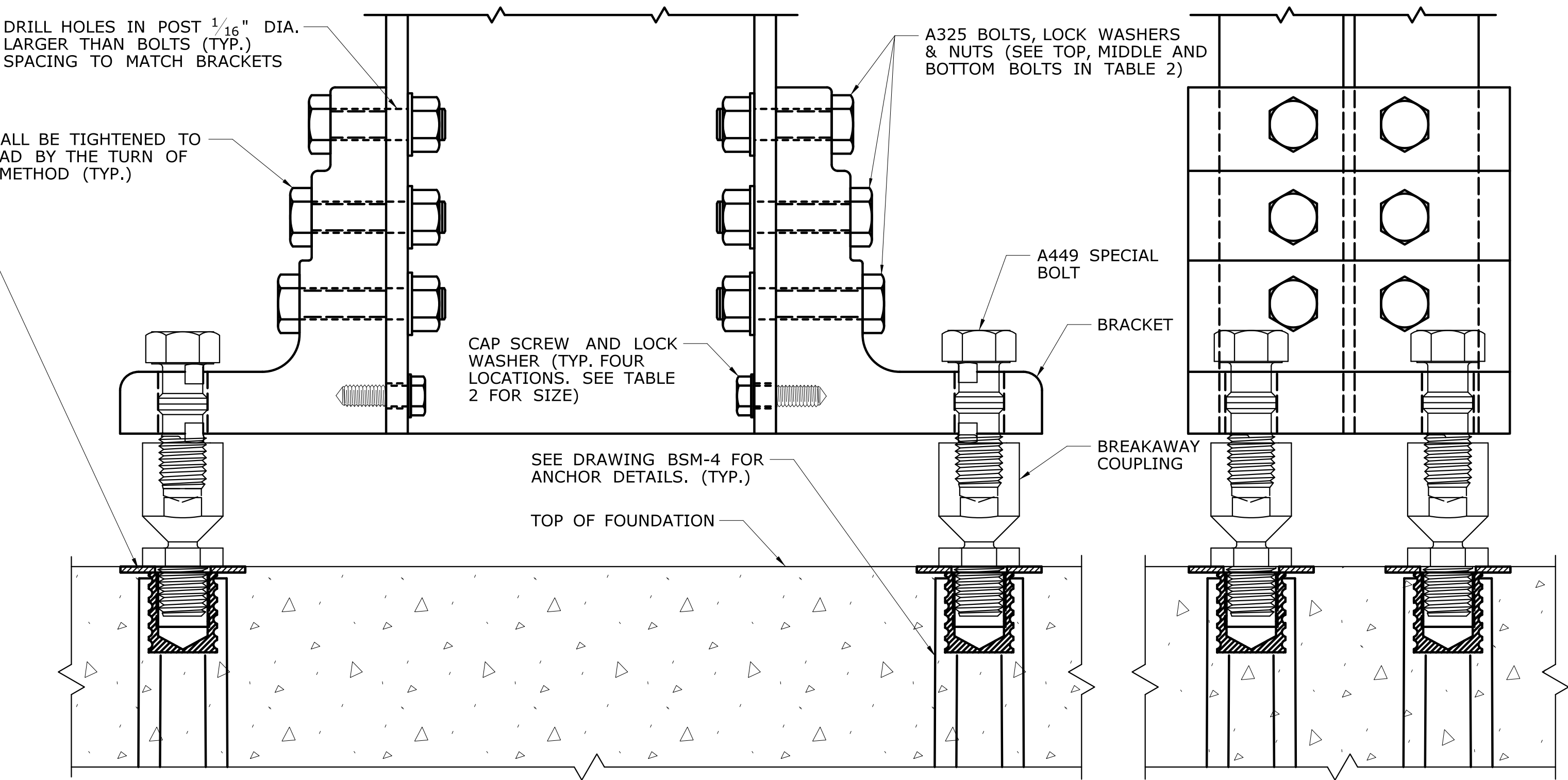
[illegible]

TABLE 1 - BRACKET DATA											
POST SIZE	BRACKET TYPE	BRACKET WEIGHT (LBS)	DIMENSIONS (IN.)			HOLE DIAMETERS (IN.)			DIMENSIONS (IN.)		
			A	B	C	D1	D2	D3	E		
									BRACKET NO.		
W6, W8 ALL OTHERS	B525 B650	7 ⁵ / ₈ 9 ¹ / ₂	5 ¹ / ₄ 6 ¹ / ₂	1 ¹ / ₈ 1 ¹ / ₈	1 ¹ / ₂ 2	1 ⁷ / ₃₂ 2 ¹ / ₃₂	7 ¹ / ₁₆ 1 ⁷ / ₃₂	1 ¹ / ₂ " - 13 UNC 1A 5 ⁵ / ₈ " - 11 UNC 1A	0.100 0.100	0.150 0.150	0.200 0.200
									F	G	

TABLE 2 - BRACKET BOLTS								
POST SIZE	BRACKET TYPE	BOLT AND CAP SCREW DIAMETER	BOLT LENGTH			CAP SCREW LENGTH	THREAD DESIGNATION (U.S. CUSTOMARY UNITS)	
			TOP	MIDDLE	BOTTOM		BOLT	CAP SCREW
W6, W8	B525	1/2	2 1/2	2 3/4	3	1 1/4	13 UNC	13 UNC
ALL OTHERS	B650	5/8	2 3/4	3	3 1/4	1 1/4	11 UNC	11 UNC

SHIM AS REQUIRED WITH MANUFACTURER SUPPLIED SHIMS (4 LOCATIONS). NO MORE THAN TWO SHIMS UNDERNEATH ANY ONE COUPLING AND NO MORE THAN THREE SHIMS UNDERNEATH ANY TWO COUPLINGS.

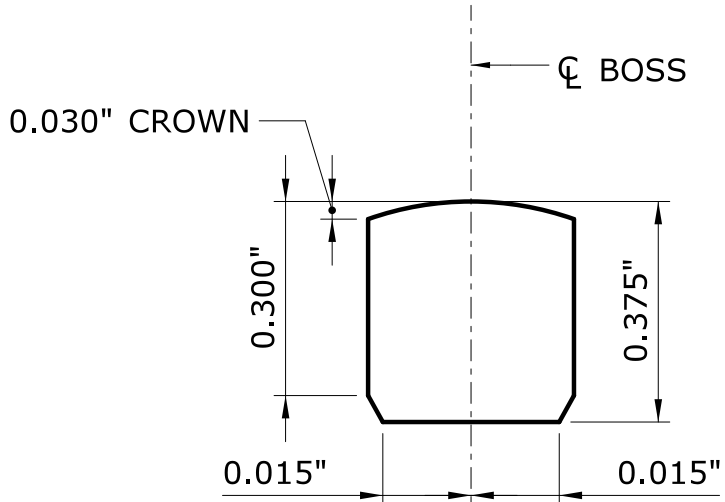
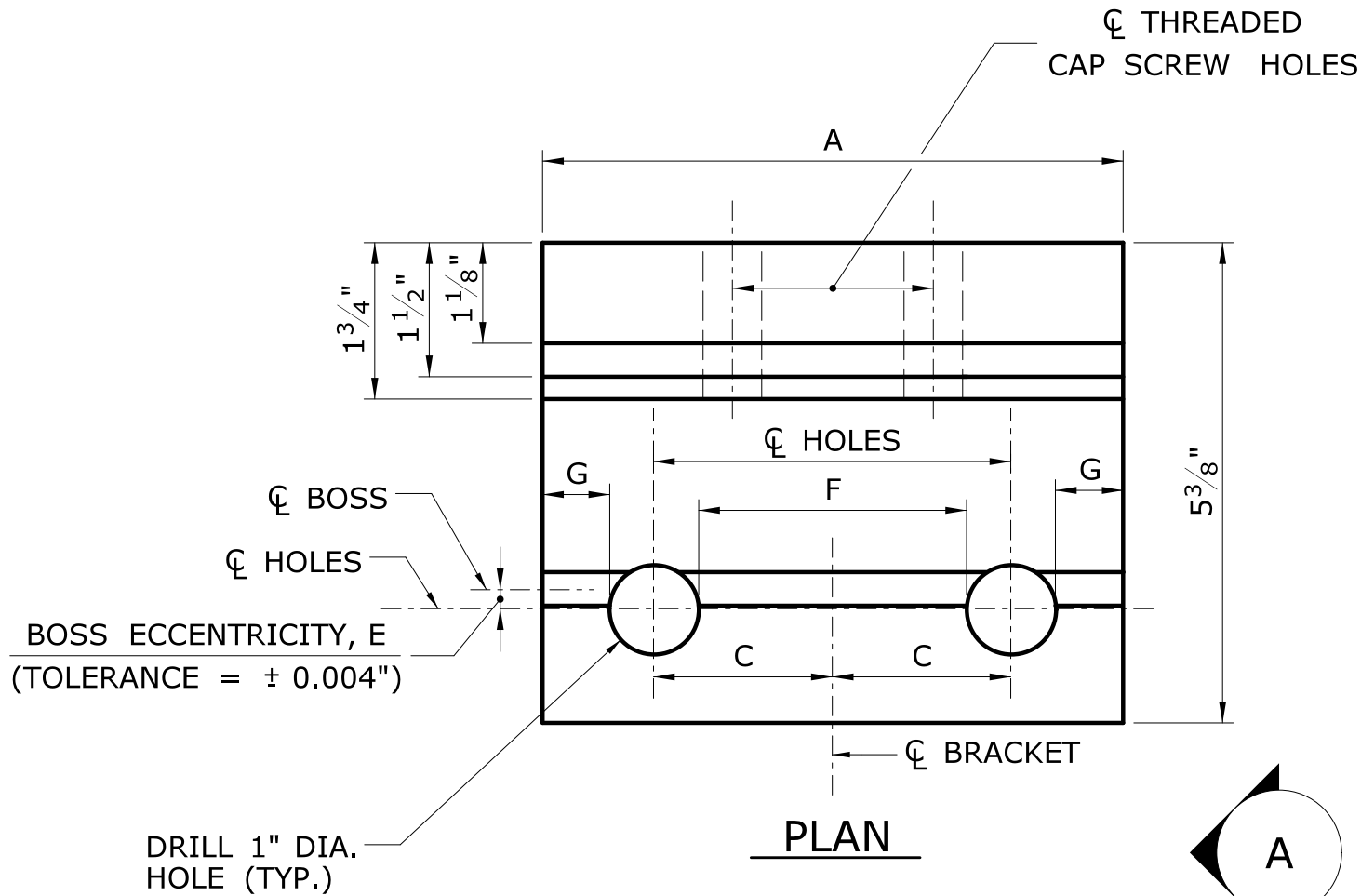
BOLTS SHALL BE TIGHTENED TO PROOF LOAD BY THE TURN OF THE NUT METHOD (TYP.)



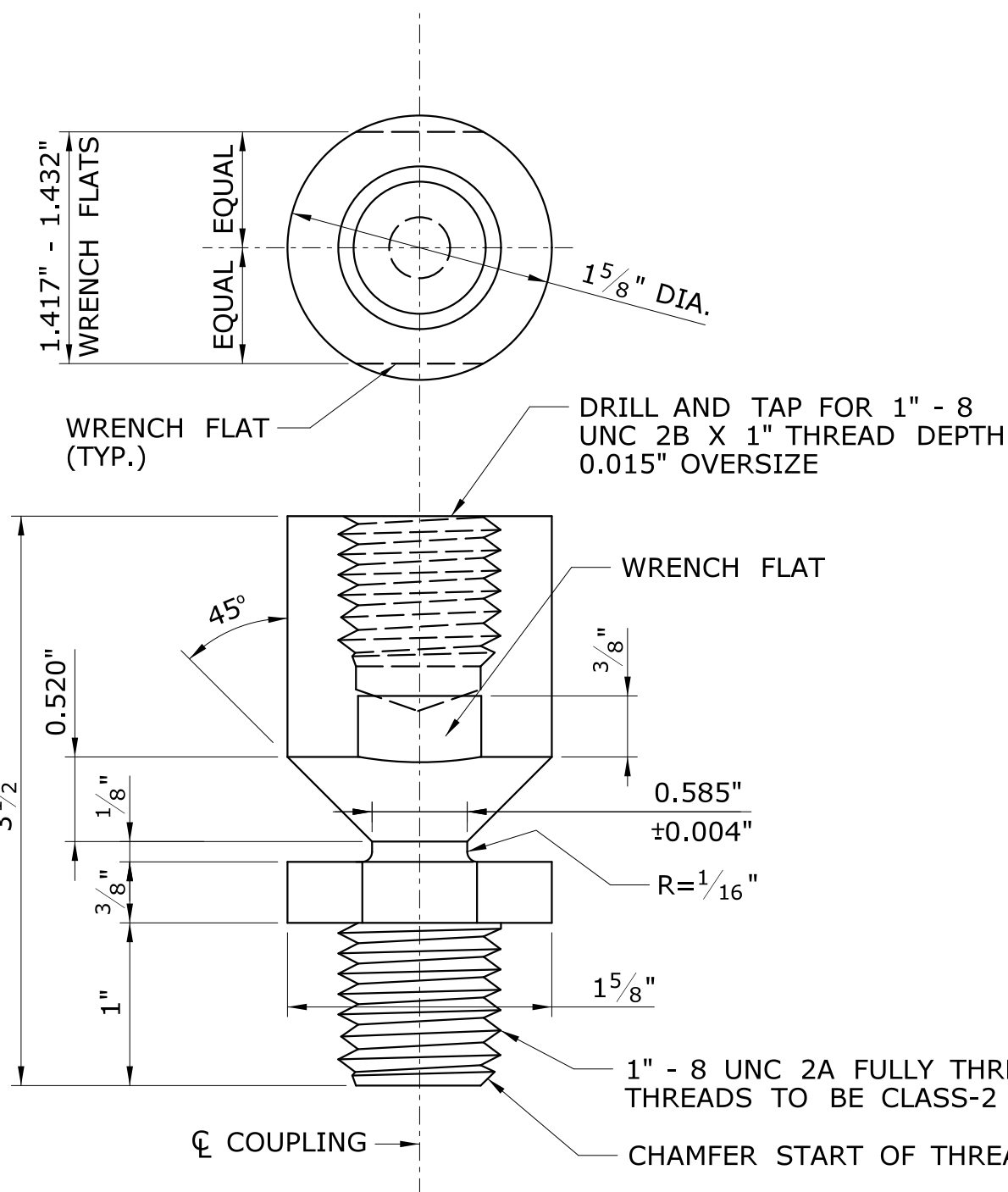
SIDE ELEVATION

FRONT ELEVATION

BRACKET ASSEMBLY DETAILS

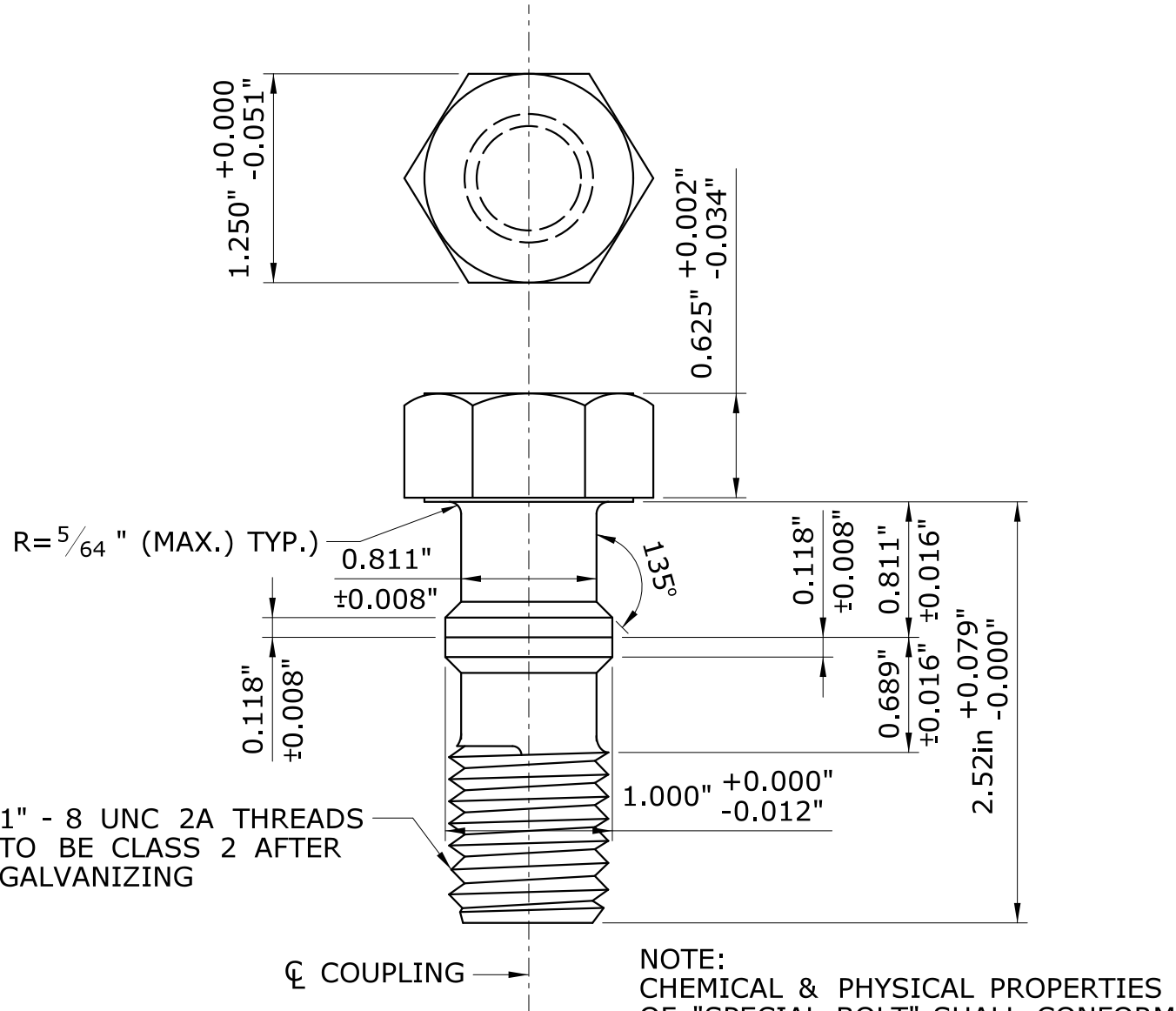


BOSS DETAIL

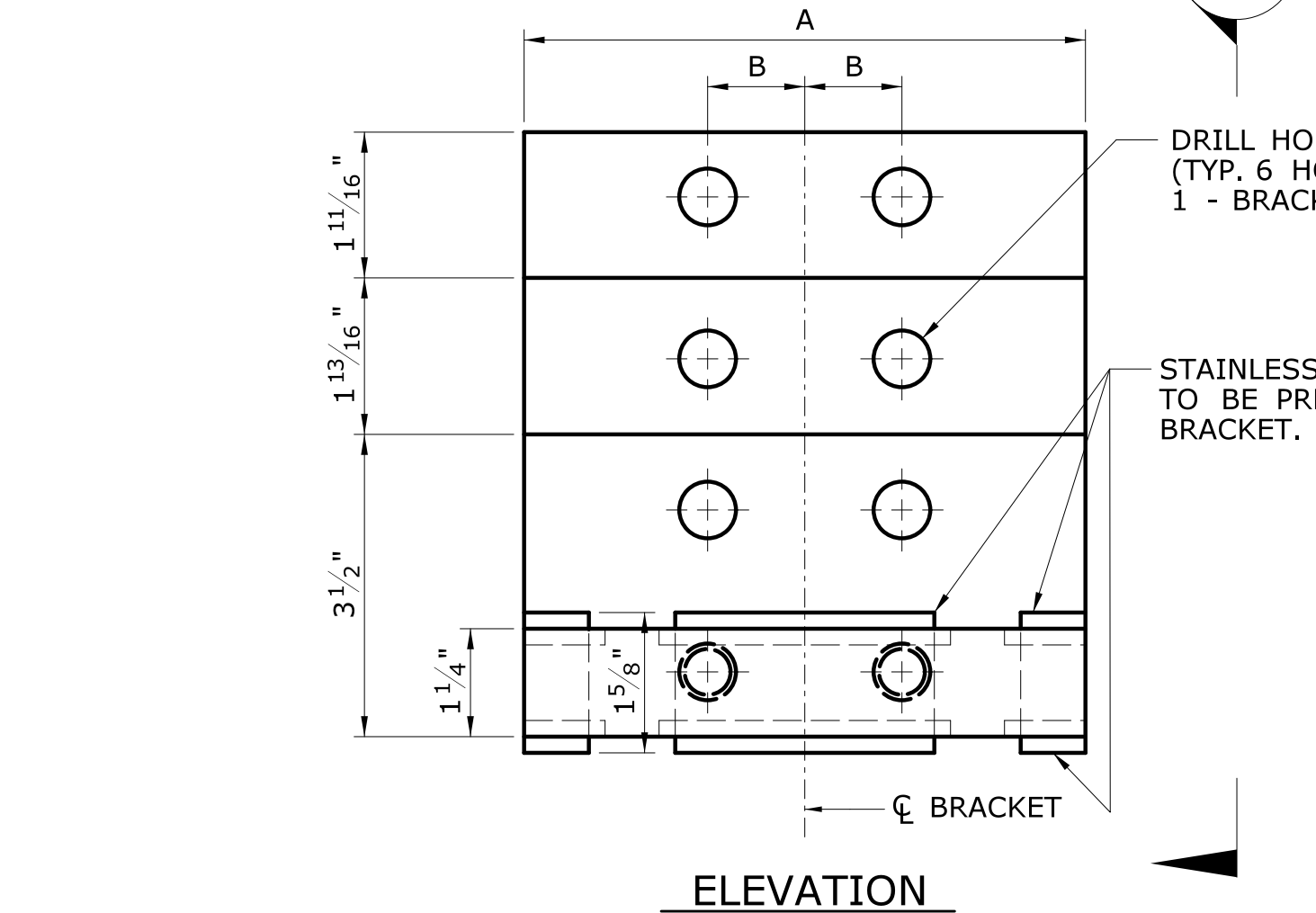


NOTE: TOLERANCES TO 1/32" EXCEPT AS NOTED

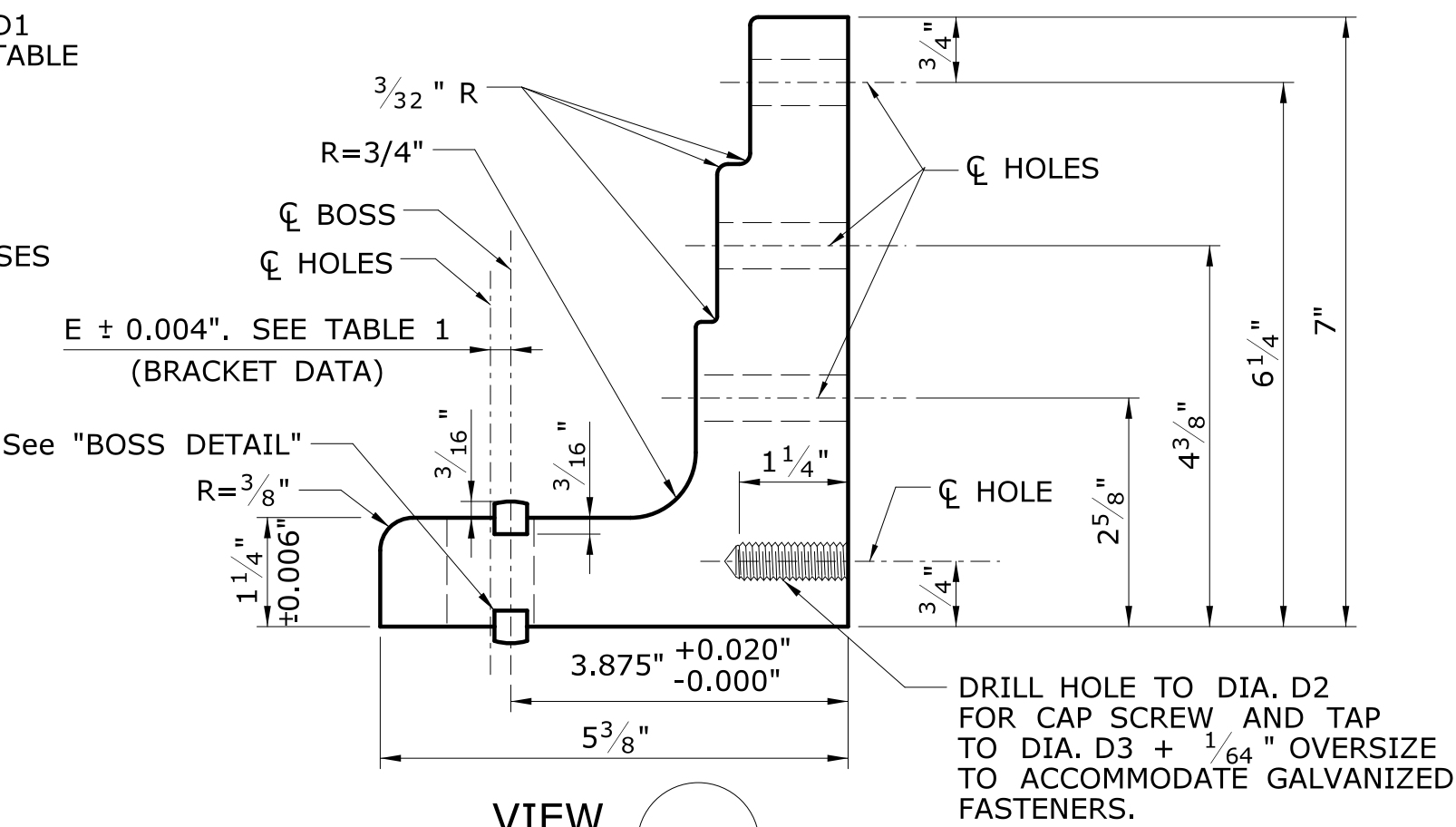
BREAKAWAY COUPLING






SPECIAL BOLT



BRACKET DETAILS
HALF SCALE



-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: BKC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 DESIGNED BY: LUCHS CONSULTING ENGINEERS, LLC 39 COLONY STREET MERIDEN, CT 06451 	PROJECT TITLE: ROUTE 8 INTERCHANGE 18 NEW NORTHBOUND ON-RAMP	TOWN: ANSONIA AND DERBY	PROJECT NO. 36-179
-	-	-	-	CHECKED BY: JRH		DRAWING NO. BSM-5					
-	-	-	-	SCALE AS NOTED							
-	-	-	-								
-	-	-	-								
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 4/28/2014		Filename: ...\\SB-Breakaway_Signpost-BSM5-BracketDet.dgn				DRAWING TITLE: BREAKAWAY SIGN SUPPORTS BRACKET DETAILS	SHEET NO. 05.40

